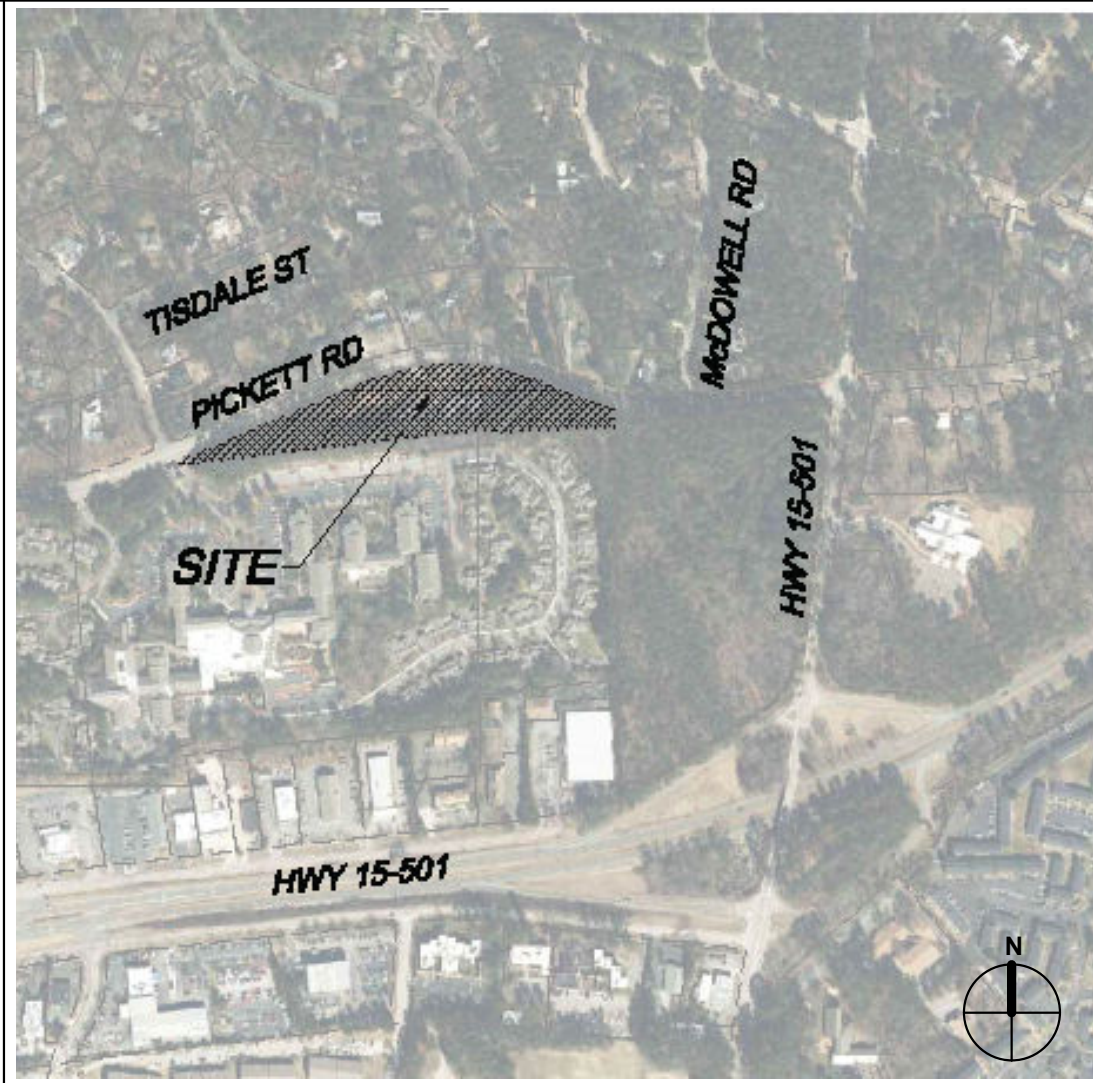


Project Notes		Construction Notes (Continued)		Shop Drawings		Pricing Notes		Vicinity Diagram		Drawing Index	
General Notes 1. AREA OF WORK = 18,800 SF + Outdoor Covered Breezway 2. ALL WORK TO COMPLY WITH LATEST VERSIONS OF CITY OF DURHAM, DURHAM COUNTY, STATE OF NORTH CAROLINA, N.C. H.C., A.D.A. AND ALL OTHER MUNICIPAL CODES & STANDARDS. 3. CONTRACTOR TO VERIFY FIT & FINISH REQUIREMENTS FOR ALL PROJECT COMPONENTS. REPORT CONFLICTING INFORMATION TO ARCHITECT PRIOR TO PROCEEDING WITH WORK. 4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS REQUIRED FOR CERTIFICATE OF OCCUPANCY. 5. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS. VERIFY COMPLIANCE OF DRAWINGS WITH OBSERVED CONDITIONS. CONTRACTOR WILL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. 6. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF OWNER'S PROPERTY & GROUNDS AT ALL TIMES. 7. DO NOT SCALE DRAWINGS. REFER TO NOTED DIMENSIONS ON PLANS. 8. CONTRACTOR WILL MAINTAIN A CLEAN, SAFE JOBSITE AT ALL TIMES, AND IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEBRIS. 9. CONTRACTOR TO COMPLETE ALL PAPERWORK, MAKE ALL DEPOSITS, PROVIDE PROOF OF INSURANCE, PROVIDE JOB SCHEDULE AND LIST OF SUBCONTRACTORS PRIOR TO STARTING WORK. 10. PAINT CONTRACTOR SHALL STENCIL/LABEL ON ALL RATED WALLS IN CONCEALED AREAS THE FOLLOWING: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS". 11. DISCOVERY OF CONFLICTING INFORMATION SHALL BE REPORTED TO ARCHITECT PRIOR TO PROCEEDING WITH WORK. 12. ALL WORK IS TO BE PERFORMED IN A PROFESSIONAL MANNER & IN ACCORDANCE W/ STANDARD PRACTICE AND CONSISTENT W/ MANUFACTURER'S & SUPPLIER'S RECOMMENDED INSTALLATION PROCEDURES. 13. G.C. TO ISSUE 'COMPLETE DRAWING SETS' TO ALL SUBCONTRACTORS FOR USE IN PRICING AND CONSTRUCTION. 14. CONTRACTOR RESPONSIBLE TO PROVIDE ACCESS TO THE EXISTING FACILITY DURING CONSTRUCTION AND ACCESS TO 19 PARKING SPACES 15. CONTRACTOR SHALL SUBMIT TO THE OWNER AND ARCHITECT A PROPOSED SCHEDULE OF VALUES DELINEATED BY PROJECT PHASE AND TRADE WITHIN 20 DAYS OF AWARD.		Construction Notes 1. CONTACT RYAN WHITLEY AT NEW CITY DESIGN GROUP WITH QUESTIONS (919-831-1308) 2. CONTRACTOR SHALL CARRY ADEQUATE LIABILITY INSURANCE. 3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND EFFECT ALL ALTERATIONS AND MODIFICATIONS NECESSARY TO DELIVER A COMPLETE PROJECT CONFORMING TO CONTRACT DRAWINGS AND SPECIFICATIONS. 4. ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM ALL DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF WORK. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIAL OR FAULTY WORKMANSHIP, CONTRACTOR SHALL CORRECT THE TROUBLE WITHOUT COST TO THE TENANT/OWNER. ANY DEFECTS NOTICED AT THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER. 5. CONTRACTOR SHALL CAUSE THE WORK TO BE DILIGENTLY PURSUED UNTIL ENTIRELY COMPLETED. 6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE (ABOVE AND BELOW SLAB) PRIOR TO ANY WORK. ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. 7. CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF ANY AND ALL DRAWINGS INCLUDING ARCHITECTURAL, MECHANICAL, AND ELECTRICAL. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ARCHITECT PRIOR TO ANY WORK. 8. CONTRACTOR SHALL NEVER SCALE DRAWINGS. LOCATIONS FOR ALL PARTITIONS, WALLS, CEILINGS, ETC. WILL BE DETERMINED BY DIMENSIONS ON THE DRAWINGS. ANY SUCH DIMENSIONS MISSING FROM THE PLANS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. 9. THE CONTRACTOR SHALL ADHERE TO THE DRAWINGS AND SPECIFICATIONS. SHOULD ANY ERROR OR INCONSISTENCY APPEAR REGARDING THE TRUE MEANING AND/OR INTENT OF THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE ARCHITECT WHO WILL MAKE ANY NECESSARY CLARIFICATION/INTERPRETATION, OR REVISIONS AS REQUIRED. 10. DIMENSIONS ON FLOOR PLANS AND SECTIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE. DIMENSIONS ON REFLECTED CEILING PLANS ARE TO FINISHED FACE UNLESS NOTED OTHERWISE. 11. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT NOTIFYING THE ARCHITECT OF ANY SUCH DISCREPANCIES, HE SHALL ASSUME ALL CHARGES AND MAKE ANY CHANGES TO HIS WORK MADE NECESSARY BY HIS FAILURE TO OBSERVE AND/OR REPORT THE CONDITION. 12. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS, FIXTURES, ETC. ON SITE FROM LOSS, DAMAGE, FIRE, THEFT, ETC.		Shop Drawings PURPOSE AND INTENT 1. SHOP DRAWINGS ARE NOT PART OF THE CONSTRUCTION CONTRACT DOCUMENTS. 2. ALL SUBMITTALS ARE OF THE CONTRACTOR, BY THE CONTRACTOR AND FOR THE CONTRACTOR FOR THEIR OWN USE IN THEIR WORK PLAN, AND FOR DEMONSTRATING THEIR PROPOSED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES TO CARRY OUT REQUIREMENTS OF THE ACTUAL CONTRACT DOCUMENTS. 3. THE CONTRACTOR'S SUBMITTALS ARE NOT THE ARCHITECT'S DESIGN WORK CONTRACTUALLY, PROFESSIONALLY, OR LEGALLY. 4. PLANS AND SPECIFICATIONS DEFINE DESIGN INTENT AS WELL AS THE SCOPE AND TERMS OF THE CONSTRUCTION CONTRACT AND DO NOT IMPLY, MANDATE, OR RECOMMEND MEANS/METHODS FOR THE CONSTRUCTION OF THE PROJECT. 5. ARCHITECT WILL "PROMPTLY REVIEW" AND "TAKE APPROPRIATE ACTION" ON CONTRACTOR'S SUBMITTALS FOR THE LIMITED PURPOSE OF VERIFYING COMPLIANCE WITH THE SPECIFIED MATERIALS AND WORKMANSHIP (AND/OR COMPLIANCE WITH THE REASONABLY INFERABLE INTENT) OF THE DESIGN, AS EXPRESSED IN THE CONTRACT DOCUMENTS. 6. SHOP DRAWINGS WILL BE REVIEWED FOR CONCEPTUAL COMPLIANCE ONLY. QUANTITIES, ASSEMBLY INSTRUCTIONS, AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED SUBCONTRACTORS. 7. SHOP DRAWING 'APPROVAL' CAN NEVER ALTER CONTRACT REQUIREMENTS - ANY CHANGE OR SUBSTITUTION REQUIRES A CHANGE ORDER WITH THE OWNER'S SIGNATURE. PROCESS 1. CONTRACTORS ARE TO APPROVE SUBMITTALS AS CONSISTENT WITH THEIR WORK PLAN AND CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING TO ARCHITECT FOR REVIEW. 2. ALL SUBMITTALS SHALL BE RECEIVED ELECTRONICALLY IN A STANDARD FILE FORMAT (PDF, JPEG, DOC, XLS) 3. CONTRACTOR TO PROVIDE AND MAINTAIN A RECORD LOG OF ALL PROJECT SUBMITTALS INDICATING THE FOLLOWING: SUBJECT AUTHORING COMPANY DATE PROVIDED TO ARCHITECT DATE RECEIVED FROM ARCHITECT ANY ADDITIONAL COMMENTS SUCH AS RESUBMITTAL REQUIREMENTS AND ADDITIONAL ACTION REQUIRED LIST OF SHOP DRAWINGS 1. GENERAL CONTRACTOR AND SUB CONTRACTOR TO PROVIDE SHOP DRAWINGS AS OUTLINED ABOVE FOR REVIEW TO ARCHITECT, TENANT, LANDLORD, DEPARTMENT OF BUILDING AND ALL REQUIRED AUTHORITIES AND AGENCIES. SIGNAGE HVAC UNITS AND CONTROLS DUCT LAYOUT AND CONNECTIONS FIRE ALARM SPRINKLER ACCESS PANEL STOREFRONT ESCALATORS (WHERE APPLICABLE) ELEVATORS (WHERE APPLICABLE) DOOR HARDWARE SMOKE BAFFLE HANDRAILS/GUARDRAILS STAIR BREAK METAL RECEPTACLES ELECTRICAL DISTRIBUTION DIFFUSERS/ GRILLES CAST STONE INTERIOR WOODWORK STRUCTURAL STEEL FRAMING STEEL DOORS/FRAMES ROLL UP GRILLES GLAZING ACOUSTICAL CEILING TILE AND GRID TOILET COMPARTMENTS STEEL LOCKERS TOILET ACCESSORIES CONCRETE MIX REINFORCING BAR CALCULATIONS FOR PILE DESIGN PLUMBING FIXTURES LIGHTING FIXTURES DISCONNECT/ SWITCHES 2. CONTRACTOR SHALL DEVELOP AND SUBMIT A COMPREHENSIVE SUBMITTAL SCHEDULE WITHIN 20 DAYS OF AWARD, WHICH SHALL BE INCORPORATED INTO THE APPROVED PROJECT SCHEDULE. THIS SCHEDULE SHALL IDENTIFY ALL MATERIALS AND EQUIPMENT WHICH DRIVE THE CRITICAL PATH SCHEDULE AND INCORPORATE INTO THE SCHEDULE A MINIMUM OF 15 DAYS FOR THE ARCHITECT TO REVIEW AND RETURN.		Pricing Notes		Vicinity Diagram 			
Design Development CARING HOUSE EXPANSION 2625 PICKETT ROAD DURHAM, NC 27705 SITE REFERENCE: DURHAM CASE #D2300010		OWNER CARING HOUSE 2625 PICKETT ROAD DURAHM, NC 27705 REP. CRAIG WARD FOR OWNERS REP / CONSTRUCTION MANAGER : PROJET STRATEGY ADVISORS : CRAIG WARD - (919)-578-9905 ProjectStrategyAdvisors.com		OWNER CARING HOUSE 2625 PICKETT ROAD DURAHM, NC 27705 REP. CRAIG WARD FOR OWNERS REP / CONSTRUCTION MANAGER : PROJET STRATEGY ADVISORS : CRAIG WARD - (919)-578-9905 ProjectStrategyAdvisors.com							
FIRE PROTECTION TO BE INCLUDED W/ CONSTRUCTION DOCUMENT PHASE website		P, M, E FA ENGINEER BARTON ASSOCIATES, INC. 708 ST. MARYS ST. RALEIGH, NC 27605 919.341.4247 DUSTIN METAYER, PE https://www.ba-inc.com/		STRUCTURAL SCALENE DESIGN 555 FAYETTEVILLE ST. SUTIE 300 RALEIGH, NC 27601 919.825.0295 DENNY FOLMAR, PE https://www.scalene-design.com/		CIVIL/LANDSCAPE FRANK LAND DESIGN, PC 120 MOSAIC BLVD, SUITE 200-21 PITTSBORO, NC 27312 919.698.6883 GARRETT FRANK, PE, PLA https://franklanddesign.com/		ARCHITECT NEW CITY DESIGN GROUP, PLLC 1304 HILLSBOROUGH ST. RALEIGH, NC 27605 919.831.1308 TED VAN DYK, AIA www.newcitydesign.com		OWNER CARING HOUSE 2625 PICKETT ROAD DURAHM, NC 27705 REP. CRAIG WARD FOR OWNERS REP / CONSTRUCTION MANAGER : PROJET STRATEGY ADVISORS : CRAIG WARD - (919)-578-9905 ProjectStrategyAdvisors.com https://caringhouse.org/	
PROJECT NUMBER 8232		SHEET TITLE		Cover Sheet		SHEET NUMBER		G001			

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project:	CARING HOUSE EXPANSION		
Address:	2625 PICKETT ROAD	Zip Code:	27705
Owner or Authorized Agent:	Caring House - Rep: Craig Ward	Phone:	-
		Email:	craig.ward@projectstrategyadvisors.com
Owned By:	☒ Private	☐ City/County	☐ State
Code Enforcement Jurisdiction:	☒ City	☐ County	☐ State

CONTACT: - , New City Design Group					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	New City Design Group	Ted Van Dyk	7501	919.831.1308	Ted@newcitydesign.com
Civil	Frank Land Design, PC	Garrett Frank	055780	919.698.6883	GarrettFrank@FrankLandDesign.com
Electrical	Barton Associates	-	-	919.341.4247	-
Fire Alarm	Barton Associates	-	-	-	-
Plumbing	Barton Associates	-	-	-	-
Mechanical	Barton Associates	Dustin Metayer	-	919.341.4247	DDMM@ba-inc.com
Sprinkler-Standpipe	T.B.D	-	-	-	-
Structural	Scalene Design	Dennis L. Folmar Jr.	029410	919.825.0295	dfolmar@scalene-design.com
Retaining Walls>5' High	T.B.D	-	-	-	-
Other	-	-	-	-	-

(*Other* should include firms and individuals such as new, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE:	☒ New Building	☐ Addition	☐ Renovation
	☐ Shell / Core*	☐ Phased Construction: Shell / Core*	☐ 1st Time Interior Completion
*Contact the local inspection jurisdiction for possible additional procedures and requirements.			
2018 NC EXISTING BUILDING CODE:	☐ Prescriptive	☐ Repair	☐ Chapter 14
	☐ Alteration Level I	☐ Alteration Level II	☐ Alteration Level III
	☐ Historic Property	☐ Change of Use	
CONSTRUCTED: (date)	Existing - 1992	CURRENT OCCUPANCY(S) (Ch. 3):	Residential, R-2
RENOVATED: (date)	-	PROPOSED OCCUPANCY(S) (Ch. 3):	Residential, R-2
RISK CATEGORY (Table 1604.5):	Current: ☐ I ☒ II ☐ III ☐ IV	Proposed: ☐ I ☒ II ☐ III ☐ IV	

Basic Building Data

CONSTRUCTION TYPE: (check all that apply)	☐ I-A	☐ I-B	☐ II-A	☐ II-B	☐ III-A	☐ III-B	☐ IV	☒ V-A	☐ V-B
Sprinklers:	☐ N/A	☒ Yes	☐ No	☐ Partial	☐ NFPA 13R	☐ NFPA 13D			
Standpipes:	☐ N/A	☐ N/A	☒ Yes	☐ No	☒ Class I - Wet	☐ Class II - Dry	☐ Class III - Wet	☐ Class III - Dry	
Primary Fire District:	☐ Yes	☐ No							
Flood Hazard Area:	☐ Yes	☐ No							
Special Inspections Required:	☐ Yes*	☐ No							
*Contact the local inspection jurisdiction for possible additional procedures and requirements.									

Gross Building Area Table

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor	-	N/A	-
2nd Floor	-	8,681 SF	-
Mezzanine	-	N/A	-
1st Floor	-	8,644 SF	-
Basement	-	N/A	-
TOTAL	-	17,325 SF	17,325 SF

Allowable Area

OCCUPANCY:			
Primary Occupancy Classification(s):	☐ Assembly - A-1	☐ Assembly - A-2	☐ Assembly - A-3
	☐ Assembly - A-4	☐ Assembly - A-5	
	☐ Business		
	☐ Educational		
	☐ Factory - F-1 Moderate	☐ Factory - F-2 Low	
	☐ Hazardous - H-1 Detonate	☐ Hazardous - H-2 Deflagrate	☐ Hazardous - H-3 Combust
	☐ Hazardous - H-4 Health	☐ Hazardous - H-5 HPM	
	☐ Institutional - I-1 Condition 1	☐ Institutional - I-1 Condition 2	☐ Institutional - I-2 Condition 1
	☐ Institutional - I-2 Condition 2	☐ Institutional - I-3 Condition 1	☐ Institutional - I-3 Condition 2
	☐ Institutional - I-3 Condition 3	☐ Institutional - I-3 Condition 4	☐ Institutional - I-3 Condition 5
	☐ Institutional - I-4		
	☐ Mercantile		
	☐ Residential - R-1	☒ Residential - R-2	☐ Residential - R-3
	☐ Residential - R-4		
	☐ Storage - S-1 Moderate	☐ Storage - S-1 Highpiled	☒ Storage - S-2 Low
	☐ Storage - S-2 Highpiled		
	☐ Parking Garage	☐ Open	☐ Enclosed
	☐ Repair Garage	☐ Utility and Miscellaneous	

Accessory Occupancy Classification(s):	N/A
Incidental Uses (Table 509):	N/A
Special Uses (Chapter 4 - List Code Sections):	N/A
Special Provisions: (Chapter 5 - List Code Sections):	N/A
Mixed Occupancy:	☐ Yes ☐ No Separation: ☐ 1-HR ☐ 2-HR ☐ 3-HR ☐ 4-HR Exception: -
☐ Non-Separated Use (508.3)	
*The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, as determined, shall apply to the entire building.	
☐ Separated Use (508.4)	

See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A	+	Actual Area of Occupancy B	< 1
Allowable Area of Occupancy A		Allowable Area of Occupancy B	
-		-	
-	+	-	+ ... = < 1

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) 4 TABLE 506.2 AREA	(C) 1.5 AREA FOR FRONTAGE INCREASE	(D) 2.3 ALLOWABLE AREA PER STORY OR UNLIMITED
1	Residential, R-2	9,400 SF	21,000 SF	-	-
2	Residential, R-2	9,400 SF	21,000 SF	-	-
-	-	-	-	-	-
-	-	-	-	-	-

1 Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = ____ ft (F)
b. Total Building Perimeter = ____ ft (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = ____ ft (W)
e. Percent of frontage increase (If = 100 [F/P - 0.25] x W/30 = ____ (%)
2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4.
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

Allowable Height

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) 2	60'	30'-6"	N/A
Building Height in Stories (Table 504.4) 3	3	2	N/A

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2 The maximum height of air traffic control towers must comply with Table 412.3.1.
3 The maximum height of open parking garages must comply with Table 406.5.4.

Fire Protection Requirements

(This section required for all projects)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D.	PROVIDED (W/ ____ HR REDUCTION)				
Structural Frame, including columns, girders, trusses		-	-	-	-	-	-
Bearing Walls		-	-	-	-	-	-
Exterior		-	-	-	-	-	-
North	>30'	0	0	-	-	-	-
East	25'	0	0	-	-	-	-
West	>30'	0	0	-	-	-	-
South	20'	0	0	-	-	-	-
Interior		1 HR	1 HR	G004	UL U305	-	-
Non-Bearing Walls and Partitions		-	-	-	-	-	-
Exterior walls		-	-	-	-	-	-
North	>30'	0	-	-	-	-	-
East	25'	0	-	-	-	-	-
West	>30'	0	-	-	-	-	-
South	20'	0	-	-	-	-	-
Interior Walls and Partitions		0	-	-	-	-	-
Floor Construction		0	0	-	-	-	-
Including supporting beams and joists				-	-	-	-
Floor Ceiling Assembly		1 HR	1 HR	G006	UL L563	-	-
Columns Supporting Floors		N/A	-	-	-	-	-
Roof construction, including supporting beams and joists		1 HR	1 HR	G005	UL P522	-	-
Roof Ceiling Assembly		1 HR	1 HR	G005	UL P522	-	-
Columns Supporting Roof		N/A	-	-	-	-	-
Shafts - Exit Enclosures - Exit / Elevator		1 HR	2 HR	G005	UL U905	-	-
Shafts - Other (describe)		1 HR	1 HR	G005	UL U469	-	-
Corridor Separation		30 MIN.	1 HR	G004	UL U340	-	-
Occupancy/Fire Barrier Separation		N/A	-	-	-	-	-
Party/Fire Wall Separation		N/A	-	-	-	-	-
Smoke Barrier Separation		N/A	-	-	-	-	-
Smoke Partition		N/A	-	-	-	-	-
Tenant/Dwelling Unit/Sleeping Unit Separation		1 HR	1 HR	G004	UL U341	-	-
Incidental Use Separation		N/A	-	-	-	-	-
* Indicate Section number permitting reduction							

Percentage of Wall Openings Calculations

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
North > 30'	Unprotected, Sprinklered (UP, S)	No Limit	N/A
East > 24'	Unprotected, Sprinklered (UP, S)	No Limit	N/A
West > 30'	Unprotected, Sprinklered (UP, S)	No Limit	N/A
South > 20'	Unprotected, Sprinklered (UP, S)	No Limit	N/A

Life Safety System Requirements

(This section required for all projects)

Emergency Lighting:	☐ No ☒ Yes
Exit Signs:	☐ No ☒ Yes
Fire Alarm:	☐ No ☒ Yes ☐ Partial -
Smoke Detection Systems:	☐ No ☒ Yes
Carbon Monoxide Detection:	☐ No ☒ Yes

Life Safety Plan Requirements

Life Safety Plan Sheet #: **G003**

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (If not on the site plan)
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (10107)
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- N/A ☐ Dead end lengths (1020.4)
- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- ☒ Actual occupant load for each exit door
- C/D'S ☒ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☒ Location of doors with panic hardware (1010.1.10)
- N/A ☐ Location of doors with delayed egress locks and the amount of the delay (1010.1.9.7)
- N/A ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☒ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- N/A ☐ The square footage of each fire area (202)
- N/A ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- N/A ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Accessible Dwelling Units (Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
23	0	0	2	2	21	21	23

Accessible Parking (Section 1106)

RE: CIVIL COVER SHEET

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
BUILDING PARKING LOT 1 PER 4 BEDS	19	68	3	-	2	5
	-	-	-	-	-	-
	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

Plumbing Fixture Requirements (Table 2902.1)

USE	WATER CLOSETS			URINALS			LAVATORIES			SHOWERS / TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTING	-	-	-	-	-	-	-	-	-	-	-
NEW	-	-	-	-	-	-	-	-	-	-	-	-
REQ'D	-	-	-	-	-	-	-	-	-	-	-	-

Special Approvals

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

-

Energy Summary

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code:	☐ Yes (The remainder of this section is not applicable)	☐ No
Exempt Building:	☐ No	☐ Yes (Provide code or statutory reference): -
Climate Zone:	☐ N/A ☐ 3A ☐ 4A ☐ 5A	
Method of Compliance:	☐ Energy Code - Performance ☐ ASHRAE 90.1 - Performance	
	☐ Energy Code - Prescriptive ☐ ASHRAE 90.1 - Prescriptive	
	☐ Other - Performance (If "Other" specify source here): -	

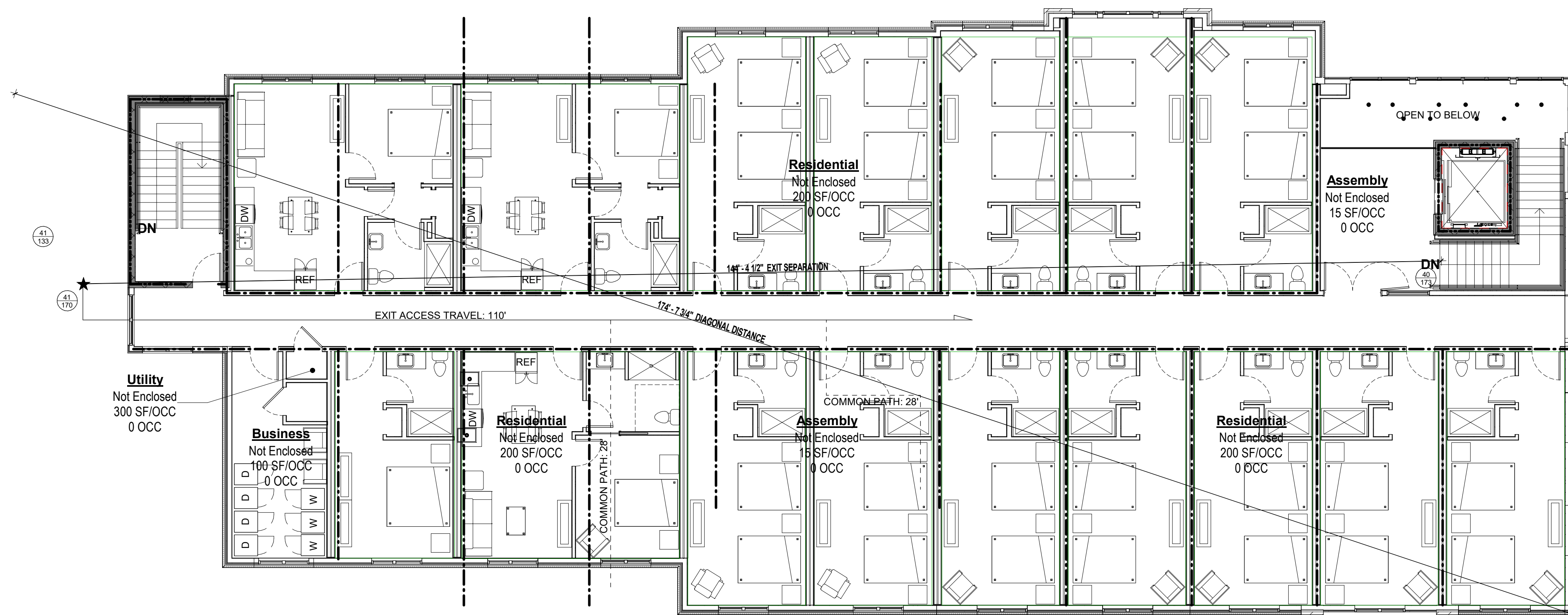
THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)	
Description of assembly:	Wood Trusses
U-Value of total assembly:	-
R-Value of insulation:	R-38 Batts + 2" Min. Continuous Tapered Insulation
Skylights in each assembly:	-
U-Value of skylight:	-
Total square footage of skylights in each assembly:	-
Exterior Walls (each assembly)	
Description of assembly:	2x6 wood stud framing w/ R 7.5 Cont. Insulation & R-19 Batt Insulation
U-Value of total assembly:	-
R-Value of insulation:	-
Openings (windows or doors with glazing)	-
U-Value of assembly:	-
Solar heat gain coefficient:	-
Projection factor:	-
Door R-Values:	-
Walls below grade (each assembly)	
Description of assembly:	-
U-Value of total assembly:	-
R-Value of insulation:	-
Floors over unconditioned space (each assembly)	
Description of assembly:	-
U-Value of total assembly:	-
R-Value of insulation:	-
Floors slab on grade (each assembly)	
Description of assembly:	4" cConcrete Slab over STEGO Vapor Barrier Over Compacted Fill
U-Value of total assembly:	-
R-Value of insulation:	-
Horizontal/Vertical requirement:	R-15 for 24"
Slab heated:	NO

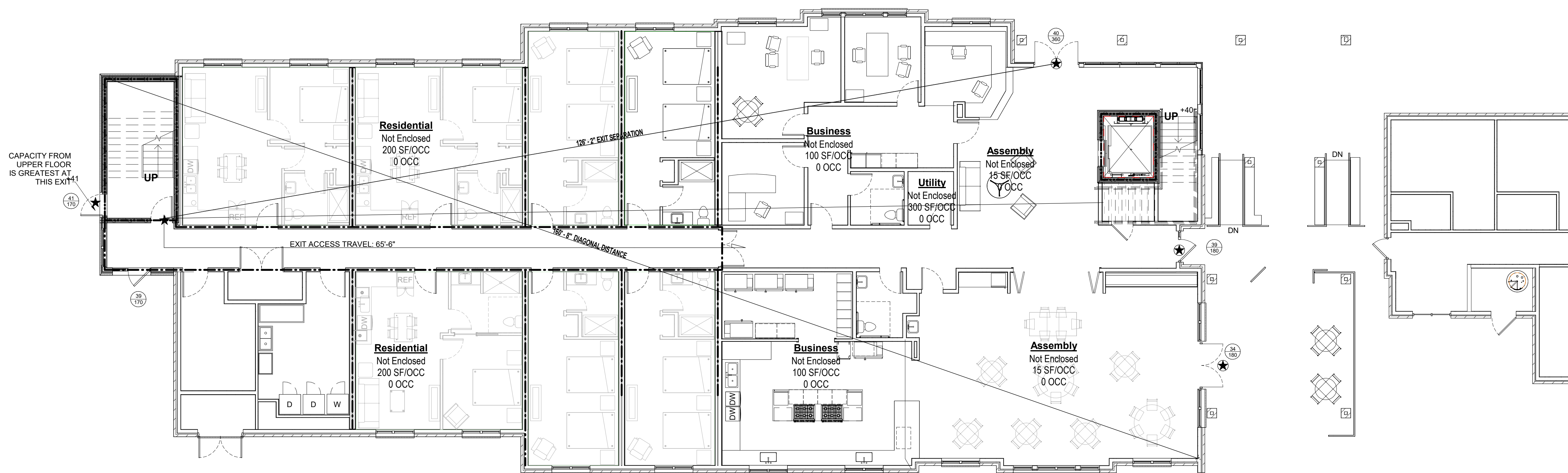
Structural Design

STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:	
Importance Factors:	Snow (Is) ☐ .080 ☐ 1.0 ☐ 1.1 ☐ 1.2
	Seismic (Ie) ☐ 1.0 ☐ 1.25 ☐ 1.5
Live Loads:	Roof - _____ psf
	Mezzanine - _____ psf
	Floor - _____ psf
Ground Snow Load:	- _____ psf
Wind Load:	Ultimate Wind Speed _____ mph (ASCE-7)
	Exposure Category ☐ N/A ☐ B ☐ C ☐ D
SEISMIC DESIGN CATEGORY:	☐ N/A ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:	Risk Category (Table 1604.5) ☐ N/A ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration:	Ss - _____ %g SI - _____ %g
Site Classification (ASCE 7)	☐ N/A ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source:	☐ N/A ☐ Field Test ☐ Presumpt



2 Life Safety - Second
G003 SCALE: 1/8" = 1'-0"



1 Life Safety - Ground
G003 SCALE: 1/8" = 1'-0"

LIFE SAFETY CALCS			
Name	Area	Occupancy Factor	Calculated Occupancy
Not Placed			
Assembly	0 SF	15 SF	0
Business	0 SF	100 SF	0
Residential	0 SF	200 SF	0
Utility	0 SF	300 SF	0
Ground Floor Plan			
Assembly	0 SF	15 SF	0
Business	0 SF	100 SF	0
Residential	0 SF	200 SF	0
Utility	0 SF	300 SF	0
Second Floor Plan			
Assembly	0 SF	15 SF	0
Business	0 SF	100 SF	0
Residential	0 SF	200 SF	0
Utility	0 SF	300 SF	0

REV DATE	REV #	REVISION DESCRIPTION
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THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY THE ARCHITECT FOR THIS PROJECT ARE INSTRUMENTS OF THE ARCHITECT'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED, THE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT. THE ARCHITECT'S DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS SHALL NOT BE USED FOR OTHER PROJECTS OR ADDITIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING BY THE ARCHITECT.

DESIGN CRITERIA

BUILDING CODES: 2018 NORTH CAROLINA STATE BUILDING CODE
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY: II

DESIGN LIVE LOADS:

PATIENT ROOMS

MECHANICAL ROOMS

OFFICE

PUBLIC AREAS/LOBBIES

STAIRS

RESIDENTIAL

RESIDENTIAL CORRIDORS

ROOF

40 PSF

150 PSF

50 PSF

100 PSF

100 PSF

40 PSF

40 PSF

20 PSF

1,000 LBS

N/A

2,000 LBS

2,000 LBS

300 LBS

N/A

N/A

300 LBS

"ALL LIVE LOADS ARE REDUCED BASED ON TRIBUTARY AREA AS ALLOWED BY THE BUILDING CODES."

GROUND SNOW LOAD, PG

IMPORTANCE FACTOR, IS

SNOW EXPOSURE FACTOR, CE

THERMAL FACTOR, CT

FLAT ROOF SNOW LOAD, PF

BASIC WIND SPEED (3 SECOND GUST)

EXPOSURE CATEGORY

ENCLOSURE CLASSIFICATION

INTERNAL PRESSURE COEFFICIENT, GCPI

TOPOGRAPHY FACTOR, KZT

APPLIED DIRECTIONALITY FACTOR, KD

WIND BASE SHEAR (X DIRECTION)

WIND BASE SHEAR (Y DIRECTION)

15 PSF

1.0

1.0

1.0

15 PSF

11.5 MPH

B

ENCLOSED

±0.18

1.00

0.85

35 KIPS

105 KIPS

**ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

USGS DESIGN MAP

ASCE 7-10

DESIGN METHOD

EQUIVALENT LATERAL FORCE

IMPORTANCE FACTOR, IE

1.0

SITE CLASS

D (ASSUMED)

MAPPED SPECTRAL RESPONSE ACCEL, SS

15.3%G

MAPPED SPECTRAL RESPONSE ACCEL,S

7.7%G

SPECTRAL RESPONSE COEFFICIENT, SDS

16.4%G

SPECTRAL RESPONSE COEFFICIENT, SD1

12.3%G

SEISMIC DESIGN CATEGORY

8

SEISMIC FORCE RESISTING SYSTEM

X DIRECTION:

BEARING WALL SYSTEMS:

LIGHT-FRAME (WOOD) SHEATHED

WITH ALL OTHER MATERIALS

Y DIRECTION:

BEARING WALL SYSTEMS:

LIGHT-FRAME (WOOD) SHEATHED

WITH WOOD STRUCTURAL PANELS

RATED FOR SHEAR RESISTANCE

RESPONSE MODIFICATION COEFFICIENT, RX

2

RESPONSE MODIFICATION COEFFICIENT, RY

6.5

SEISMIC RESPONSE COEFFICIENT, CSX

0.082

SEISMIC RESPONSE COEFFICIENT, CSY

0.027

DEFLECTION AMPLIFICATION FACTOR, CDX

2

DEFLECTION AMPLIFICATION FACTOR, CDY

4

SEISMIC BASE SHEAR (X DIRECTION)

10 KIPS

SEISMIC BASE SHEAR (Y DIRECTION)

33 KIPS

***ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR SEISMIC LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

FUTURE LOADS: UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DESIGN DRAWINGS THERE HAVE BEEN NO DESIGN PROVISIONS MADE TO ACCOMMODATE FUTURE LOADS OR TO ACCOMMODATE FUTURE ADDITIONS TO THE STRUCTURE.

GEOTECHNICAL INFO: FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE ALLOWABLE BEARING CAPACITY OF 2,000 PSF. GENERAL CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.

GENERAL

G-01 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH CIVIL, LANDSCAPE ARCHITECTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AS WELL AS ANY OTHER APPLICABLE TRADES. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-02 THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND EXCEPT WHERE SPECIFICALLY SHOWN DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, AND PROCEDURES.

G-03 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND FOR APPLICATION OF CONSTRUCTION LOADS TO THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY BRACING, FORMWORK, SUPPORTS, AND SHORING REQUIRED TO STABILIZE THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR IS TO UTILIZE A THIRD PARTY STRUCTURAL ENGINEER TO PROVIDE THE DESIGN AND DOCUMENTATION FOR TEMPORARY BRACING, FORMWORK, SUPPORTS AND SHORING AS REQUIRED BY THE PROJECT SPECIFICATIONS.

G-04 THE CONTRACTOR IS TO VERIFY ALL EXISTING SITE GRADING CONDITIONS, EXISTING UTILITIES AND EXISTING BUILDING DIMENSIONS AND CONDITIONS AS THEY APPLY TO THE NEW STRUCTURAL CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-05 THE CONTRACTOR IS TO PROTECT ALL EXISTING AND NEW UTILITIES, STRUCTURES, AND FACILITIES FROM DAMAGE DURING CONSTRUCTION.

G-06 ANY WORK NOT IN CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS OR THE APPLICABLE BUILDING CODE(S) WILL BE CORRECTED BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD.

G-07 SECTIONS AND NOTES APPLY TO ALL LIKE OR SIMILAR CONDITIONS.

G-08 DO NOT SCALE STRUCTURAL DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION. THE CONTRACTOR IS TO REQUEST ANY DIMENSIONAL INFORMATION REQUIRED.

G-09 THE STRUCTURAL PLANS DO NOT SHOW EVERY OPENING OR PENETRATION REQUIRED THROUGH STRUCTURAL ELEMENTS. THE CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES, TRADES AND SHOP DRAWINGS. OPENINGS ARE TO BE CONSTRUCTED USING TYPICAL DETAILS AND CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS. OPENINGS REQUIRED THAT CANNOT CONFORM TO THE TYPICAL DETAILS OR CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

DEMOLITION

D-01 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE EXISTING STRUCTURE AND FOR APPLICATION OF CONSTRUCTION LOADS TO THE EXISTING STRUCTURE DURING THE DEMOLITION PROCESS AND UNTIL THE FINAL CONSTRUCTION OF THE STRUCTURE IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY BRACING, FORMWORK, SUPPORTS, AND SHORING REQUIRED TO STABILIZE THE EXISTING STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR IS TO UTILIZE A THIRD PARTY STRUCTURAL ENGINEER TO PROVIDE THE DESIGN AND DOCUMENTATION FOR TEMPORARY BRACING, FORMWORK, SUPPORTS AND SHORING.

D-02 ALL EXISTING FOUNDATIONS AND FRAMING SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS ARE INDICATED FOR REFERENCE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS. EXISTING STRUCTURAL FRAMING AND FOUNDATIONS SHOWN ARE BASED ON FIELD VERIFICATION OF VISIBLE ELEMENTS/EXISTING STRUCTURAL DRAWINGS PREPARED BY XXXXXXXXXX DATED XXXXXXXX.

CONCRETE AND REINFORCING STEEL

C-01 CONCRETE TO MEET THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS (F'C):
INTERIOR SLABS ON GRADE
EXTERIOR SLAB ON GRADE

FOOTINGS
FOUNDATION WALLS, BASEMENT WALLS, SITE RETAINING WALLS
GROUT

3,000 PSI, NORMAL WEIGHT
4,500 PSI, NORMAL WEIGHT
W/ 3% AIR CONTENT
4,000 PSI, NORMAL WEIGHT
4,000 PSI, NORMAL WEIGHT
NON-SHRINK,
NON-METALLIC

C-02 PROVIDE CLEAR COVER ON REINFORCING STEEL PER ACI 318 AND AS INDICATED BELOW:
CONVENTIONALLY REINFORCED CONCRETE
CONCRETE CAST AGAINST AND EXPOSED TO EARTH
CONCRETE EXPOSED TO EARTH AND WEATHER

3"
2" FOR BARS #6 AND LARGER
1 1/2" FOR BARS SMALLER THAN #6
3/4" FOR SLABS AND WALLS
1 1/2" FOR BEAMS AND COLUMNS

CONCRETE NOT EXPOSED TO EARTH AND WEATHER

"NOTE: EXPOSED TO WEATHER" INCLUDES CONCRETE SURFACES PERMANENTLY EXPOSED TO THE ELEMENTS. CONCRETE SURFACES SUCH AS ROOF SLABS THAT ARE COVERED WITH PROTECTIVE SYSTEMS ARE NOT CONSIDERED TO BE EXPOSED TO WEATHER.

C-03 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS, ACI-318 AND ACI-315.

C-04 DO NOT WELD REINFORCING STEEL UNLESS SPECIFICALLY INDICATED ON STRUCTURAL CONTRACT DOCUMENTS.

C-05 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE. "WET SETTING" OF EMBEDDED ITEMS IS NOT ACCEPTABLE.

C-06 CLAY BRICK, ROCKS, WOOD, OR CMU BRICK ARE NOT TO BE USED TO SUPPORT REINFORCING STEEL IN FOOTINGS, PILE CAPS, GRADE BEAMS, OR SLABS ON GRADE.

C-07 EXTEND ALL WALL FOOTING REINFORCING STEEL CONTINUOUSLY THROUGH ADJACENT COLUMN FOOTINGS.

C-08 DOWELS EXTENDING FROM CONCRETE ELEMENTS SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

C-09 LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS, UNLESS SPECIFICALLY NOTED OTHERWISE:
CONTINUOUS FOOTINGS - AT CONTRACTOR'S PREFERENCE
WALL HORIZONTAL REINFORCING - AT CONTRACTOR'S PREFERENCE
WALL VERTICAL REINFORCING - AS INDICATED ON SECTIONS AND DETAILS

C-10 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

C-11 HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE ELEMENTS ARE NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C-12 THE CONTRACTOR IS TO PROVIDE VERTICAL CONSTRUCTION JOINTS AS NECESSARY TO ENSURE THE QUALITY AND FINISH OF CONCRETE SATISFIES THE PROJECT SPECIFICATIONS. THE CONTRACTOR'S PROPOSED CONSTRUCTION JOINT LOCATIONS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT. REFER TO TYPICAL CONSTRUCTION JOINT DETAILS FOR ADDITIONAL REINFORCING, KEYWAYS AND OTHER REQUIREMENTS.

CONCRETE MASONRY (CMU)

M-01 MASONRY ASSEMBLY 28 DAY COMPRESSIVE STRENGTH (F'M):
CONCRETE MASONRY UNIT COMPRESSIVE STRENGTH:
MASONRY GROUT, TYPE S, 28 DAY COMPRESSIVE STRENGTH:

1,500 PSI
1,900 PSI
2,000 PSI

M-02 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND ACI-530.01.

M-03 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO GROUTING MASONRY UNITS. "WET SETTING" OF EMBEDDED ITEMS IS NOT ACCEPTABLE.

M-04 DOWELS EXTENDING FROM CONCRETE ELEMENTS INTO MASONRY SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

M-05 WALLS, PEDESTALS AND PIERS BELOW GRADE ARE TO HAVE ALL CELLS OF MASONRY UNITS GROUTED SOLID.

M-06 ALL WALLS, PEDESTALS AND PIERS ABOVE GRADE ARE TO HAVE ONLY REINFORCED CELLS OF MASONRY UNITS GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DETAILS.

M-07 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE MASONRY ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATIONS

F-01 FOOTINGS ARE TO BE FOUNDED AT A DEPTH PROVIDING THE DESIGN BEARING CAPACITY AND AT AN ELEVATION WHERE THE TOP OF THE FOOTING IS BELOW THE FROST PENETRATION DEPTH AS DICTATED BY THE BUILDING CODE BUT NO LESS THAN 12" BELOW THE FINAL, FINISHED GRADE. THE CONTRACTOR IS TO COMPARE THE TOP OF FOOTING ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH THE FINAL GRADE INDICATED ON THE CIVIL/LANDSCAPE ARCHITECTURAL DRAWINGS AND NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

F-02 THE CONTRACTOR IS RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATIONS, WHERE REQUIRED, SHORE THE EXCAVATIONS WITH SYSTEMS DESIGNED AND DETAILED BY THE CONTRACTOR'S ENGINEER.

F-03 UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS, ALL FOUNDATION WALLS AND BASEMENT WALLS ARE TO BE TEMPORARILY BRACED BY THE CONTRACTOR DURING BACKFILL OPERATIONS AND UNTIL SLABS AT TOP OF WALLS HAVE BEEN INSTALLED AND HAVE REACHED DESIGN STRENGTH OR ARE AT LEAST 7 DAYS OLD.

F-04 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES UNDER AND THROUGH FOUNDATION ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

POST-INSTALLED ADHESIVE/MECHANICAL ANCHORS

A-01 POST-INSTALLED ANCHORS ARE TO BE USED ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR IS TO SUBMIT ANY PROPOSED POST-INSTALLED ANCHORAGE NOT SHOWN ON THE CONTRACT DOCUMENT TO THE ENGINEER FOR REVIEW.

A-02 ALL POST-INSTALLED ANCHORS ARE TO BE INSTALLED AS INDICATED BY THE STRUCTURAL DRAWINGS AND IN STRICT ACCORDANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.

A-03 THE BASIS OF DESIGN FOR MECHANICAL ANCHORS ARE THE FOLLOWING PRODUCTS:
HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR WITH SAFESIT SYSTEM; SIMPSON STRONG TIE TITEN HD SCREW ANCHOR; DEWALT POWER-STD+SD1

A-04 THE BASIS OF DESIGN FOR ADHESIVES/EPOXY ARE THE FOLLOWING PRODUCTS:
HILTI HIT-HY200 OR HILTI HIT-RE 500 V3 WITH SAFESIT SYSTEM; SIMPSON STRONG TIE SET-3G; DEWALT AC108+GOLD

A-05 THE CONTRACTOR MAY SUBMIT ALTERNATIVE MECHANICAL ANCHORS AND ADHESIVES/EPOXY THAT MEET OR EXCEED THE PROPERTIES AND LOAD CARRYING CAPACITIES OF THE BASIS OF DESIGN PRODUCTS TO THE ENGINEER FOR REVIEW.

A-06 PRIOR TO THE INSTALLATION OF ANY POST-INSTALLED ANCHORS, THE CONTRACTOR IS TO LOCATE ALL REINFORCING STEEL WITHIN STRUCTURAL ELEMENTS USING NON-DESTRUCTIVE METHODS. IF ANCHOR LOCATIONS ARE IN CONFLICT WITH ANY REINFORCING STEEL NOTIFY THE ENGINEER FOR DIRECTION.

STRUCTURAL STEEL

S-01 STEEL PROPERTIES:
W-SHAPES AND CHANNELS:
ANGLES, BARS, RODS:
HOLLOW SECTIONS, HSS:
PIPE:
PLATE:

A992 OR A572 (FY=50 KSI)
A36 (FY=36 KSI)
A500, GRADE B (42 KSI ROUND, 46 KSI RECTANGULAR)
A53, GRADE B, TYPE S (FY=35 KSI)
A36 (FY=36 KSI) AND A572,
5,000 PSI (50 KSI) WHERE INDICATED
F1554, GRADE 36

S-02 DESIGN, DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND AISC 360-05 AND AISC 325-05.

S-03 WELD ELECTRODES: E70XX. PERFORM ALL WELDING PER AWS D1.1-4.

S-04 ALL STEEL MEMBER CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR'S ENGINEER FOR THE LOADS INDICATED. WHEN SPECIFIC REACTIONS ARE NOT PROVIDED ON PLANS OR BY NOTE, CONNECTIONS ARE TO BE DESIGNED FOR THE MAXIMUM ALLOWABLE UNIFORM LOADS AS DETERMINED BY PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE SECTION, SPAN AND STRENGTH SPECIFIED.

S-05 UNLESS SPECIFICALLY INDICATED, SPICED STRUCTURAL STEEL MEMBERS ARE NOT ACCEPTABLE. ALL PROPOSED SPLICES MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

S-06 FIELD MODIFICATION OF STRUCTURAL STEEL MEMBERS AND THEIR CONNECTIONS IS PROHIBITED UNLESS THE PROPOSED MODIFICATIONS HAVE BEEN REVIEWED BY THE ENGINEER.

S-07 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCK, CLIPS, TABS AND OTHER ATTACHMENTS REQUIRED. SHOW ALL ITEMS ON STRUCTURAL STEEL SHOP DRAWINGS.

S-08 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL COPING OF STRUCTURAL STEEL MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH STEEL MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

STEEL STAIRS

K-01 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS, THE DESIGN AND DETAILING OF ALL STEEL FRAMED STAIRS IS THE RESPONSIBILITY OF THE STEEL FABRICATOR'S ENGINEER.

K-02 STEEL STAIRS, LANDINGS, RAILINGS AND ALL CONNECTIONS ARE TO BE DESIGNED FOR THE FOLLOWING LOADS:
UNIFORM LIVE LOAD: 100 PSF
TREADS: 300 LB CONCENTRATED LOAD DISTRIBUTED OVER 4 SQUARE INCHES.
RAILINGS: 50 PLF APPLIED IN ANY DIRECTION AT THE TOP OF THE RAILING OR A SINGLE 200 LB POINT LOAD APPLIED IN ANY DIRECTION AT ANY POINT AT THE TOP OF THE RAILING, WHICHEVER GOVERNS THE DESIGN.

INTERMEDIATE RAILING COMPONENTS: 50 LB HORIZONTALLY APPLIED ON AN AREA EQUAL TO 1 SQUARE FOOT ANYWHERE ALONG THE LENGTH OF THE COMPONENT.

WOOD FRAMING

W-01 WOOD PROPERTIES:
STRUCTURAL LUMBER:
PRESSURE TREATED STRUCTURAL LUMBER:
FLOOR SHEATHING:

SPRUCE PINE FIR NO.2
SOUTHERN YELLOW PINE NO.2
PLYWOOD OR OSB, 23/32" 1&G EXPOSURE 1, PANEL INDEX 48/24

ROOF SHEATHING: PLYWOOD OR OSB, 19/32" STANDARD C.D. EXPOSURE 1, PANEL INDEX 24/16

WALL SHEATHING: PLYWOOD OR OSB, 7/16" WOOD STRUCTURAL PANELS, STRUCTURAL I

LAMINATED VENEER LUMBER (LVL): F8=2,600 PSI; E=1,900 KSI; FC PARL =2,500 PSI; FC PERP = 750 PSI

PARALLEL STRAND LUMBER (PSL) BEAMS: F8=2,900 PSI; E=2,000 KSI

COLUMNS: F8=2,400 PSI; E=1,800 KSI; FC PARL =2,900 PSI; FC PERP = 750 PSI

W-02 DETAIL, FABRICATE AND INSTALL ALL WOOD FRAMING PER STRUCTURAL CONTRACT DOCUMENTS AND NDS-05.

W-03 ALL WOOD FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE REQUIRED BY THE BUILDING CODE.

W-04 ALL CONVENTIONAL LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE PRESSURE TREATED SOUTHERN YELLOW PINE AS INDICATED ABOVE. ALL ENGINEERED WOOD PRODUCTS IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE CHEMICALLY TREATED OR WOLMANIZED TO SATISFY AWPA USE CATEGORY 3 OR 4.

W-05 FOLLOW STRUCTURAL DRAWINGS FOR BLOCKING AND BRIDGING REQUIREMENTS. AS A MINIMUM, PROVIDE SOLID 2x BLOCKING AT ALL RAFTERS AND JOISTS AT THE FOLLOWING LOCATIONS:

ALL BEARING POINTS
MIDSPAN
END OF ALL CANTILEVERED MEMBERS
8'-0" ON CENTER

W-06 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL NOTCHING OF STRUCTURAL WOOD FRAMING MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH WOOD MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

W-07 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCKING, EQUIPMENT SUPPORTS, AND ALL OTHER SECONDARY NON-STRUCTURAL FRAMING REQUIRED.

W-08 FIRE RETARDANT TREATED DESIGN VALUE ADJUSTMENT FACTORS AT SERVICE TEMPERATURES UP TO 100°F:
WALL/FLOOR FRAMING: F8 = 0.90; FT = 0.98; FC = 0.94; FV = 0.95; E = 0.94; FC2 = 0.95; CONNECTIONS = 0.90

WOOD PREFABRICATED TRUSSES

T-01 TRUSS DESIGN CRITERIA:
FLOOR SUPERIMPOSED DEAD LOAD:
FLOOR SUPERIMPOSED LIVE LOAD:
ROOF SUPERIMPOSED DEAD LOAD:
ROOF SUPERIMPOSED LIVE LOAD:
ROOF WIND UPLIFT LOADS:

20 PSF ON TOP CHORDS
10 PSF ON BOTTOM CHORDS
AS REQUIRED BY BUILDING CODE AND AS SUMMARIZED ABOVE
10 PSF ON TOP CHORDS
10 PSF ON BOTTOM CHORDS
AS REQUIRED BY BUILDING CODE AND AS SUMMARIZED ABOVE
DESIGN FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE BUILDING CODE(S)

DESIGN TRUSSES TO TRANSFER WIND AND SEISMIC DRAG FORCES WHERE INDICATED ON THE STRUCTURAL CONTRACT DOCUMENTS.
FLOOR TRUSS DEFLECTION DUE TO LIVE LOADS: SPAN/360
ROOF TRUSS DEFLECTION DUE TO LIVE LOADS: SPAN/240
FLOOR TRUSS DEFLECTION DUE TO TOTAL LOADS: SPAN/240
ROOF TRUSS DEFLECTION DUE TO TOTAL LOADS: SPAN/180

T-02 DESIGN, DETAIL, FABRICATE AND ERECT ALL PREFABRICATED WOOD TRUSSES PER THE STRUCTURAL CONTRACT DOCUMENTS AND ANSI/TPI 1-2014 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.

T-03 THE CONTRACTOR IS TO PROVIDE TEMPORARY TRUSS BRACING AND PERMANENT MEMBER RESTRAINT/BRACING FOR THE TRUSS SYSTEM(S) PER TPI D38-89 RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BC/S/BC-S-B3 SUMMARY SHEETS. THIS INCLUDES BRACING REQUIRED FOR TRUSSES SPANNING 60 FEET OR MORE. SIZE, LOCATION, SPACING, CONNECTION DETAILS FOR ALL BRACING TO BE INDICATED ON THE TRUSS SUPPLIER'S SHOP DRAWINGS.

T-04 THE TRUSS MANUFACTURER'S ENGINEER IS TO SPECIFY THE TYPE OF CONNECTION HARDWARE REQUIRED AT ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTIONS.

ABBREVIATIONS

@ AT
& AND
NUMBER
AB ANCHOR BOLTS
ADDL ADDITIONAL
AFF ABOVE FINISHED FLOOR
ALT ALTERNATE
ARCH ARCHITECT / ARCHITECTURAL
BOT BOTTOM
BCX BOTTOM CHORD EXTENSION
BLDG BUILDING
BOS BOTTOM OF STEEL
BRG BEARING
BTWN BETWEEN
CANT CANTILEVER
CJ CONTROL JOINT
CL CENTERLINE
CLR CLEAR
CMU CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONS CONSTRUCTION
CONT CONTINUOUS
CORD COORDINATE
CTRD CENTERED
C PENNY (NAILS)
DBA DEFORMED BAR ANCHOR
DET DETAIL
DIA DIAMETER
DIM DIMENSION
DIST DISTANCE
DN DOWN
DNG DRAWING
DWL DOWEL
EA EACH
EE EACH END
EF EACH FACE
EJ EXPANSION JOINT
ELEV ELEVATION
EMBD EMBEDDED / EMBEDMENT
ENGR ENGINEER
EOD EDGE OF DECK
EOS EDGE OF SLAB
EQL EQUAL
EW EACH WAY
EXST EXISTING
EXP EXPANSION
EXT EXTERIOR
FDN FOUNDATION
FFE FINISHED FLOOR ELEVATION
FOW FACE OF WALL
FR FIRE RETARDANT TREATED
FS FAR SIDE
FTG FOOTING
GA GAUGE
GALV GALVANIZED

HD HEADED
HORZ HORIZONTAL
INT INTERIOR
INFO INFORMATION
JOINT JOINT
K KIPS
KSI KIPS PER SQUARE INCH
LBS POUNDS
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LWC LIGHTWEIGHT CONCRETE
MAX MAXIMUM
MC MOMENT CONNECTION
MECH MECHANICAL
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MOW MIDDLE OF WALL
NS NEAR SIDE
NTS NOT TO SCALE
NWC NORMAL WEIGHT CONCRETE
ON CENTER
OPNG OPENING
OPP OPPOSITE HAND
PAF POWDER ACTUATED FASTENER
PARL PARALLEL
PERP PERPENDICULAR
PL PLATE
PSF POUNDS PER SQAURE FOOT
PSI POUNDS PER SQAURE INCH
PT PRESSURE TREATED
P-T POST TENSIONED
REF REFERENCE
REIN REINFORCING
REQD REQUIRED
SCH SCHEDULE
SIM SIMILAR
SOG SLAB ON GRADE
SPEC SPECIFICATION(S)
SQ SQUARE
STD STANDARD
STIF STIFFENER
STIR STIRRUP(S)
STL STEEL
TCX TOP CHORD EXTENSION
THRU THROUGH
TOC TOP OF CONCRETE
TOF TOP OF FOOTING
TOS TOP OF STEEL
TOW TOP OF WALL
TYP TYPICAL
UNO UNLESS NOTED OTHERWISE
VERT VERTICAL
VIF VERIFY IN FIELD
W/ WITH
WP WORK POINT

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919.855.0295 PROJECT NO: 224-05400

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SEAL

029410

ENGINEER

JOHN L. FOLMAR JR.

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CARING HOUSE EXPANSION

2625 PICKETT RD.,
DURHAM, NC 27707

DESIGN DEVELOPMENT

PROJECT NUMBER 7999

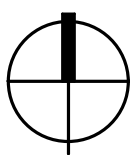
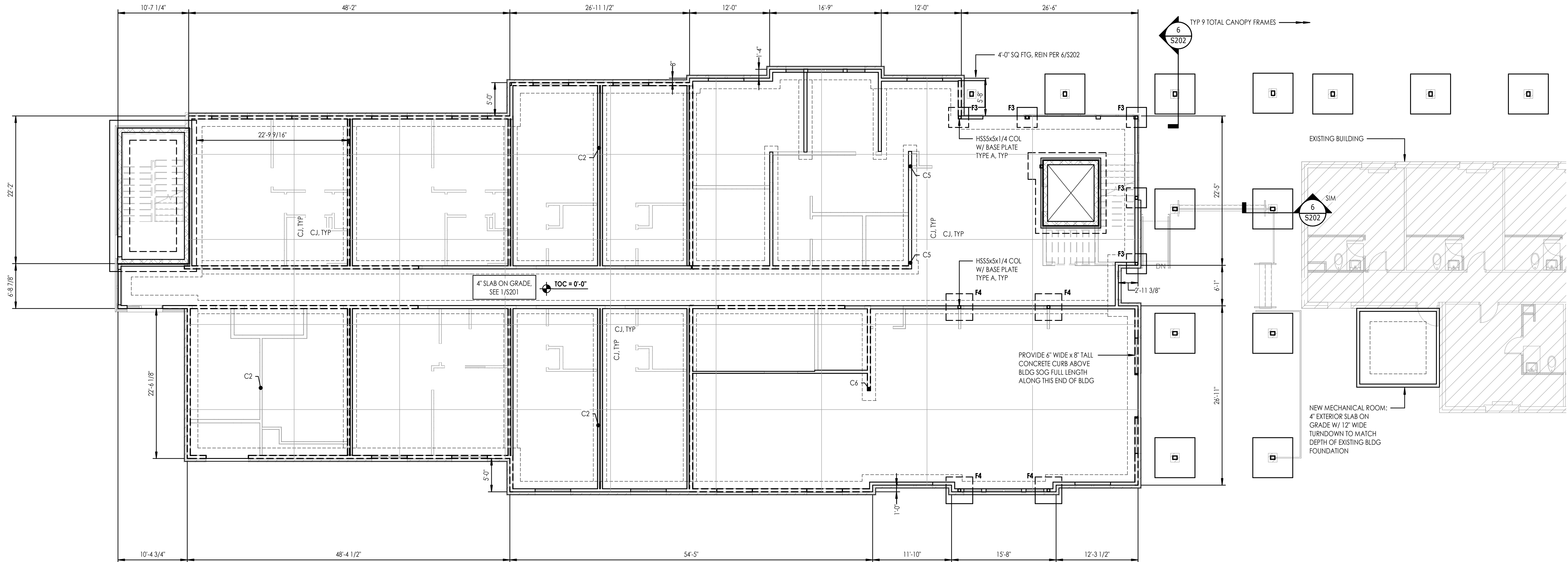
SHEET TITLE

GENERAL NOTES & ABBREVIATIONS

SHEET NUMBER

S001

C:\Users\Jared.Larson\OneDrive\Scalene Design\Drawings\2625 Pickett Rd\2625 Pickett Rd.dwg 09/06/2024 09:00 Caring House Addition - Structural - rcd04.rvt



NOTES:

- SEE S201 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
- TOP OF SLAB ELEVATION = 0'-00" UNLESS NOTED OTHERWISE. SEE S201 FOR SLAB CONSTRUCTION DETAILS.
- [xxx'-xx"] INDICATES TOP OF FOOTING ELEVATION.
- F# / [xxx'-xx"] INDICATES FOOTING TYPE AND TOP OF FOOTING ELEVATION. SEE FOOTING SCHEDULE.
- FOOTINGS ARE TO BE CENTERED ON WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
- SEE 1/S301 WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
- C# INDICATES WOOD COLUMN. SEE THIS SHEET FOR WOOD COLUMN SCHEDULE.
- SW# INDICATES WOOD SHEAR WALL TYPE. SEE S201. SHEAR WALLS ON THIS PLAN REFER TO WALLS FROM SLAB TO FIRST LEVEL OF FRAMING.
- DIMENSIONS ARE TO OUTSIDE FACE OF WOOD STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTERIOR WALL LOCATIONS AND OTHER DIMENSIONS.
- THICKENED SLABS UNDER INTERIOR LOAD BEARING WALLS ARE INDICATED.
- DETERMINE LOCATION AND EXTENT OF ALL THICKENED SLABS FOR NON-LOAD BEARING PARTITION WALLS FROM THE ARCHITECTURAL DRAWING.
- DETERMINE LOCATIONS OF ALL FLOOR DRAINS, SLOPES TO DRAINS, AND SLAB DEPRESSIONS FROM ARCHITECTURAL DRAWING.
- SEE S201 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

	TOP OF SLAB ELEVATION		SLAB CONTROL JOINT
	SLOPED SLAB SURFACE		STEP IN TOP OF FOOTING ELEVATION. SEE x/Sxx
	SLOPED SLAB SURFACE		SHADED AREA: 4" EXTERIOR SLAB ON GRADE. SEE 2/S201
	STEP IN SLAB ELEVATION		CMU WALL
	LOAD BEARING WALL		NON-LOAD BEARING PARTITION WALL
	SHEAR WALL		

WOOD COLUMN SCHEDULE

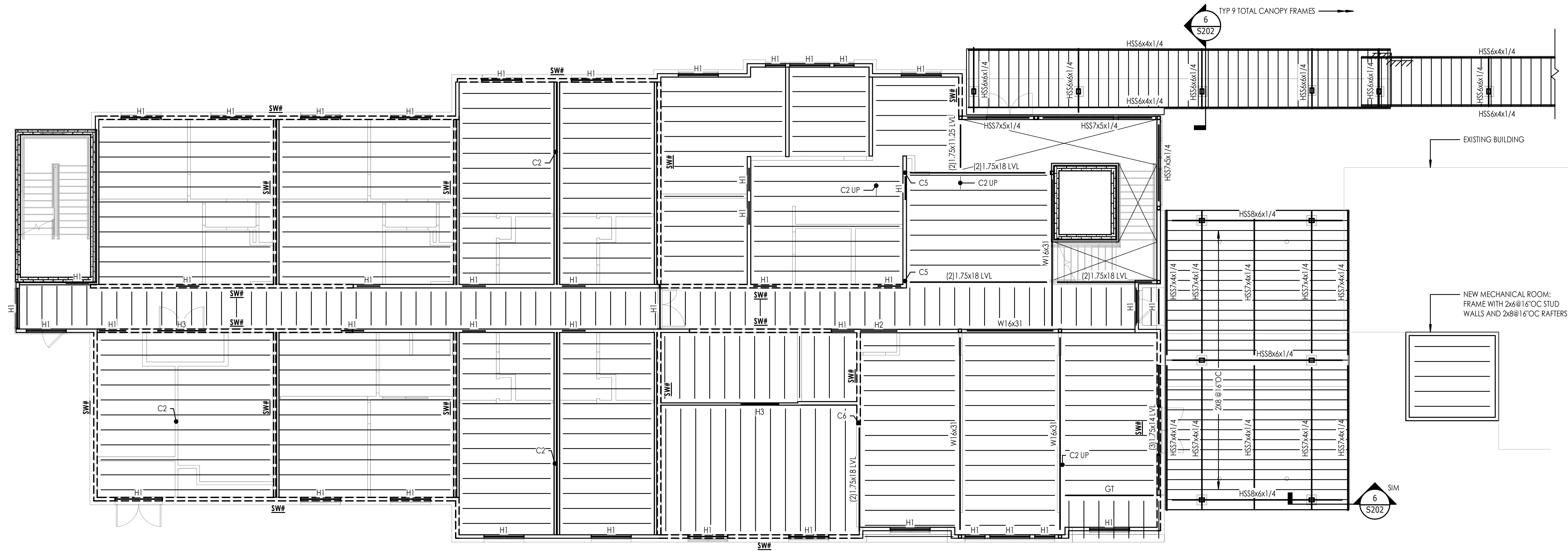
COLUMN MARK	COLUMN SIZE	COLUMN MARK	COLUMN SIZE
C1	[2]2x4	C8	4x4
C2	[3]2x4	C9	6x6
C3	[4]2x4	C10	3.5" x 3.5" PSL
C4	[5]2x4	C11	3.5" x 5.25" PSL
C5	[2]2x6	C12	3.5" x 7" PSL
C6	[3]2x6	C13	5.25" x 5.25" PSL
C7	[4]2x6	C14	5.25" x 7" PSL

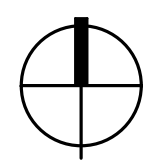
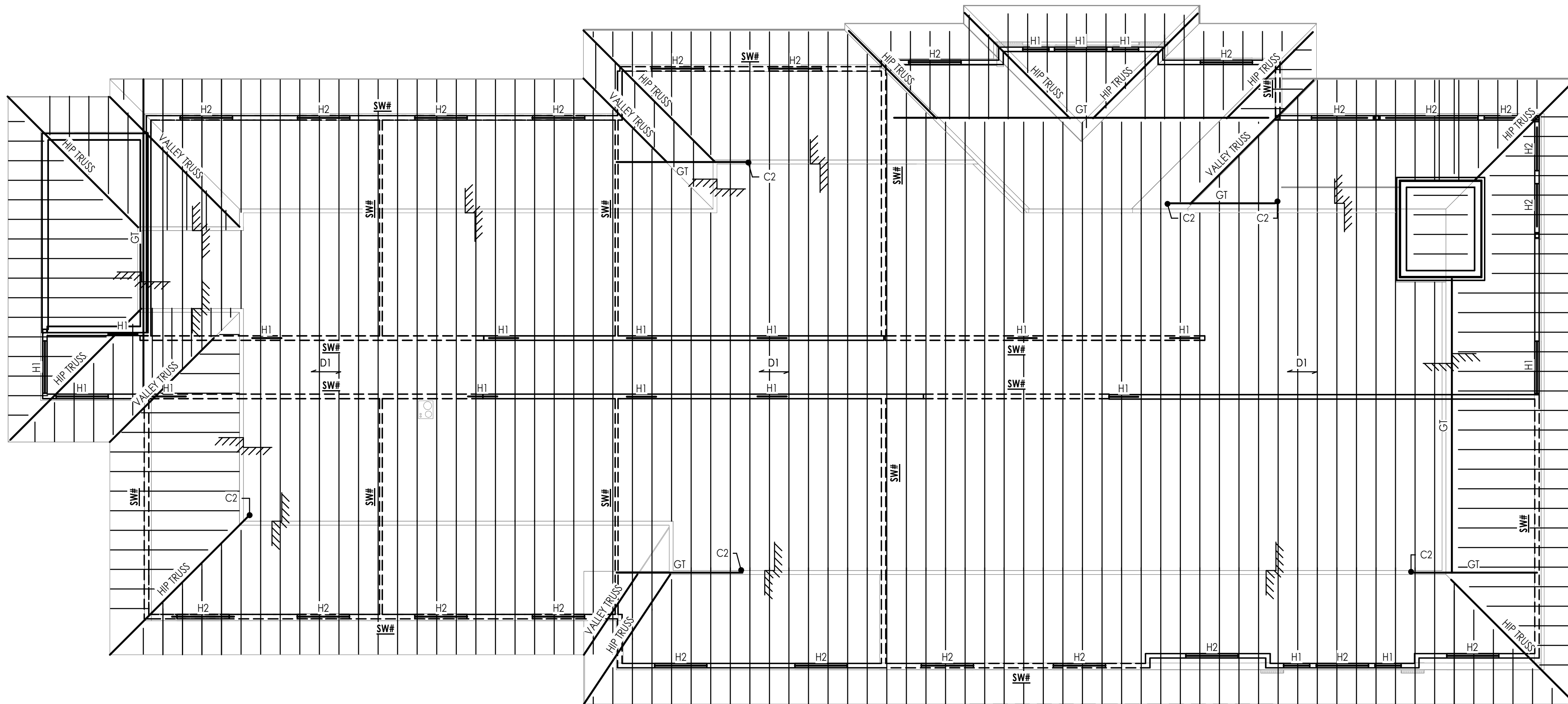
NOTES:

- REFER TO GENERAL STRUCTURAL NOTES FOR MATERIAL PROPERTIES REQUIRED FOR COLUMNS.
- COLUMNS EXPOSED TO THE EXTERIOR ARE TO BE PRESSURE TREATED.
- BUILT-UP COLUMNS CONSTRUCTED OF MULTIPLE 2x STUDS ARE TO BE NAILED TOGETHER PER THE BUILT-UP COLUMNS/STUDS TYPICAL DETAIL.

FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS			REINFORCEMENT (EACH WAY)	
	WIDTH	LENGTH	THICKNESS	TOP	BOTTOM
F3	3'-0"	3'-0"	1'-0"	—	(4)#5
F4	4'-0"	4'-0"	1'-0"	—	(5)#5
F6	6'-0"	6'-0"	1'-0"	(7)#5	(7)#5

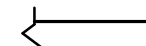
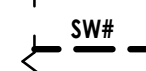
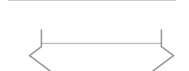




NOTES:

- ROOF TRUSS BEARING ELEVATION = 22'-4" UNLESS NOTED OTHERWISE.
- [xxx-xx] INDICATES ROOF TRUSS/RAFTER BEARING ELEVATION.
- SEE 2x6x WOOD FRAMED CONSTRUCTION DETAIL FOR GENERAL WALL FRAMING REQUIREMENTS.
- DI INDICATES 19/32" PLYWOOD ROOF DECK. SEE 1/S401 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
- H# INDICATES WOOD HEADER OR WOOD BEAM. SEE THIS SHEET FOR WOOD HEADER/BEAM SCHEDULE.
- C# INDICATES COLUMN. SEE THIS SHEET FOR COLUMN SCHEDULE.
- PROVIDE DOUBLE STUDS UNDER ALL BEAM, HIP TRUSS, AND TRUSS GIRDER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
- SW# INDICATES WOOD SHEAR WALL TYPE. SEE S501. SHEAR WALLS ON THIS PLAN REFER TO WALLS BELOW THIS LEVEL OF FRAMING.
- DIMENSIONS ARE TO OUTSIDE FACE OF STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTERIOR WALL LOCATIONS AND OTHER DIMENSIONS.
- PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE PLAN BY SHADED AREAS; COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS.
- SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
- SEE S401 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.

LEGEND:

	LOAD BEARING WALL		SHADED AREA: MECHANICAL UNIT ZONE
	SHEAR WALL		NON-LOAD BEARING PARTITION
	ROOF TRUSSES SPACED @24"OC UNLESS NOTED OTHERWISE.		CMU WALL
	2x JOIST FRAMING		

WOOD COLUMN SCHEDULE

COLUMN MARK	COLUMN SIZE	COLUMN MARK	COLUMN SIZE
C1	(2)2x4	C8	4x4
C2	(3)2x4	C9	6x6
C3	(4)2x4	C10	3.5" x 3.5" PSL
C4	(5)2x4	C11	3.5" x 5.25" PSL
C5	(2)2x6	C12	3.5" x 7" PSL
C6	(3)2x6	C13	5.25" x 5.25" PSL
C7	(4)2x6	C14	5.25" x 7" PSL

NOTES:

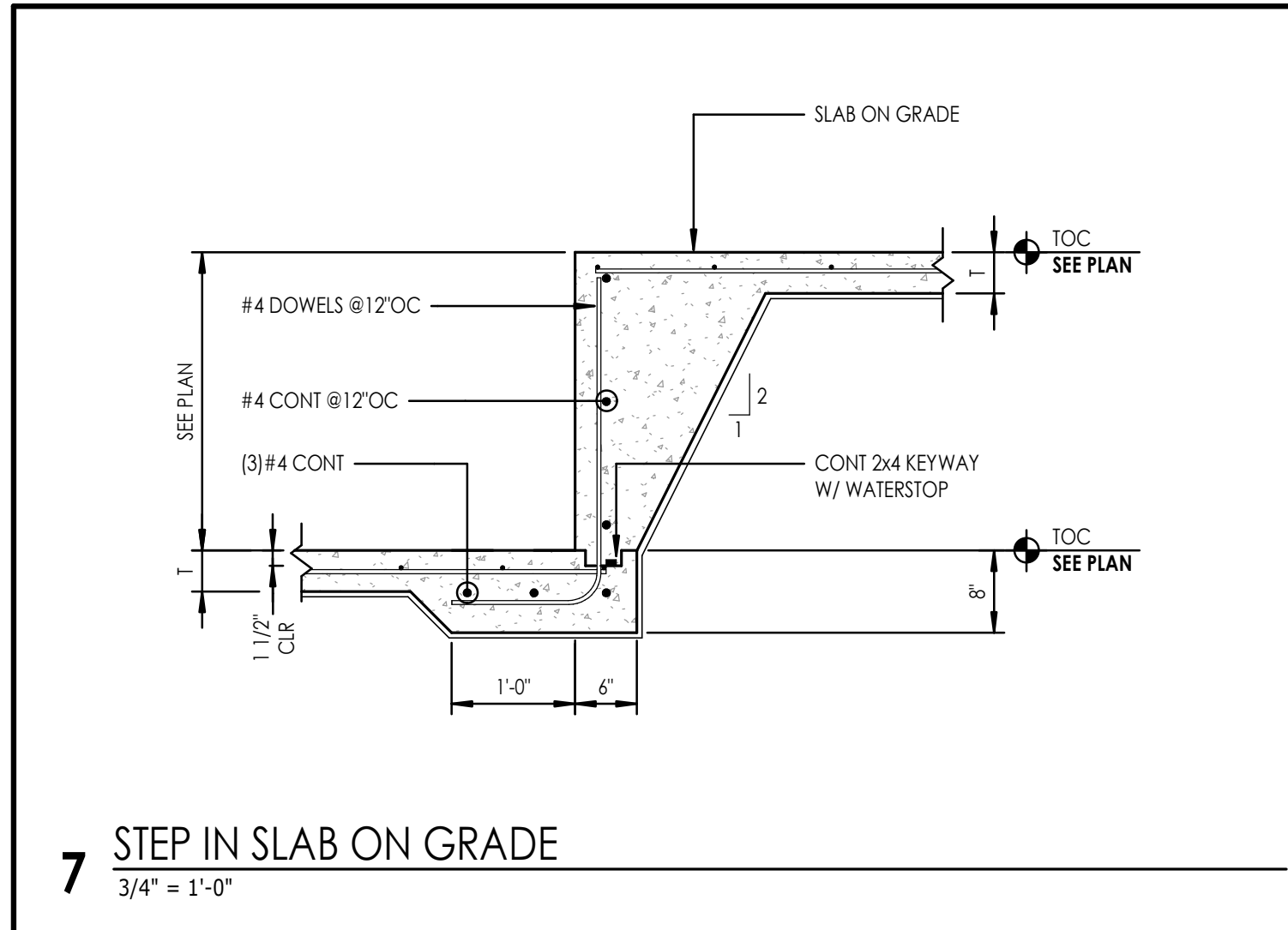
- REFER TO GENERAL STRUCTURAL NOTES FOR MATERIAL PROPERTIES REQUIRED FOR COLUMNS.
- COLUMNS EXPOSED TO THE EXTERIOR ARE TO BE PRESSURE TREATED.
- BUILT-UP COLUMNS CONSTRUCTED OF MULTIPLE 2x STUDS ARE TO BE NAILED TOGETHER PER THE BUILT-UP COLUMNS/STUDS TYPICAL DETAIL.

WOOD BEAM/HEADER SCHEDULE

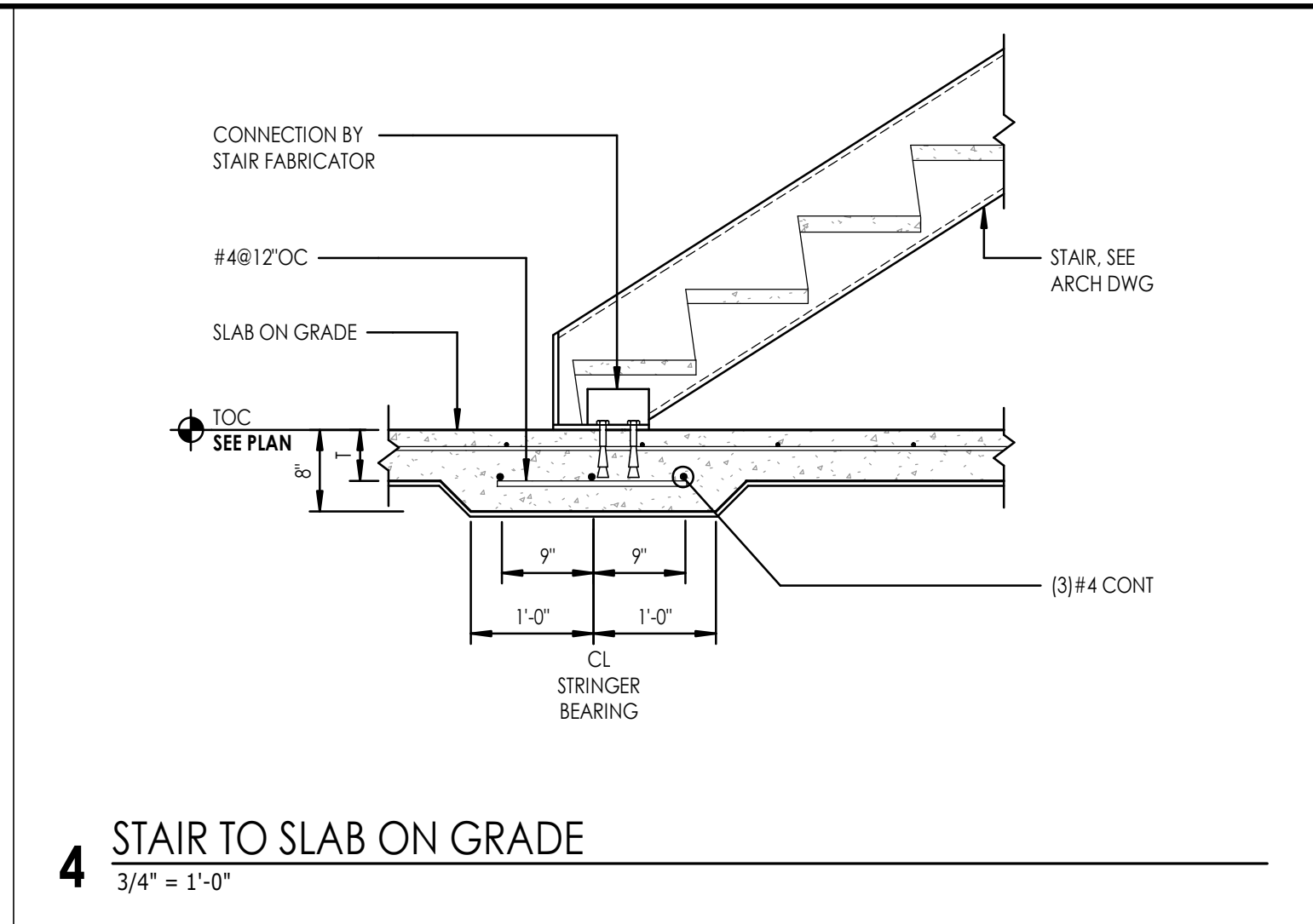
BEAM/HEADER MARK	BEAM/HEADER SIZE	BEAM/HEADER MARK	BEAM/HEADER SIZE
H1	(2)2x8	H8	(2)1.75 x 9.25 LVL
H2	(2)2x10	H9	(2)1.75 x 11.25 LVL
H3	(2)2x12	H10	(2)1.75 x 14 LVL
H4	(3)2x8	H11	(2)1.75 x 14 LVL
H5	(3)2x10	H12	(2)1.75 x 18 LVL
H6	(3)2x12	H13	(3)1.75 x 9.25 LVL
H7	(2)1.75 x 7.25 LVL	H14	(3)1.75 x 11.25 LVL

NOTES:

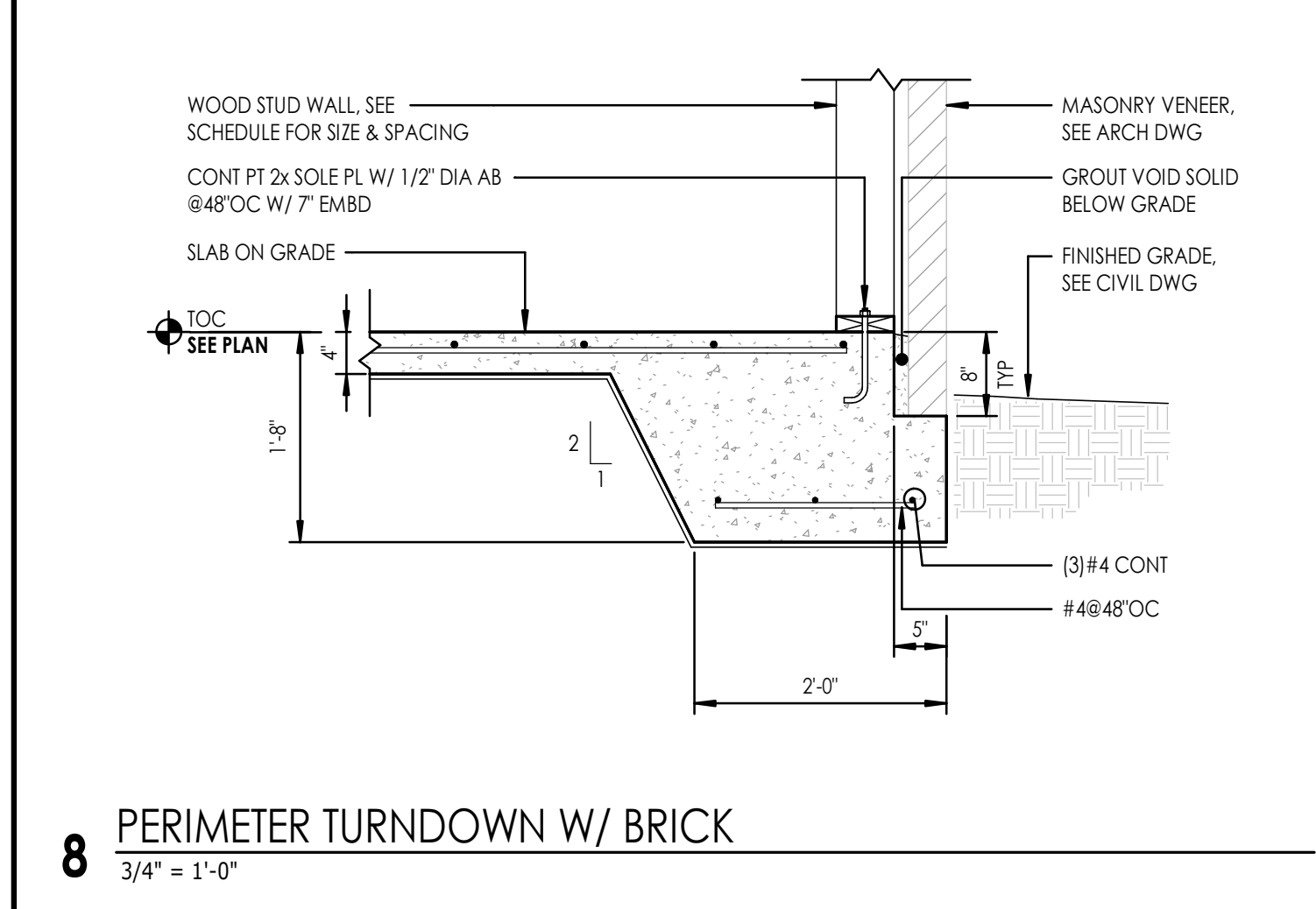
- REFER TO GENERAL STRUCTURAL NOTES FOR MATERIAL PROPERTIES REQUIRED FOR BEAMS/HEADERS.
- BEAMS/HEADERS EXPOSED TO THE EXTERIOR ARE TO BE PRESSURE TREATED.
- MULTI-PLY BEAMS/HEADERS CONSTRUCTED OF MULTIPLE PLIES ARE TO BE NAILED TOGETHER PER THE MULTI-PLY BEAMS/HEADERS TYPICAL DETAIL.



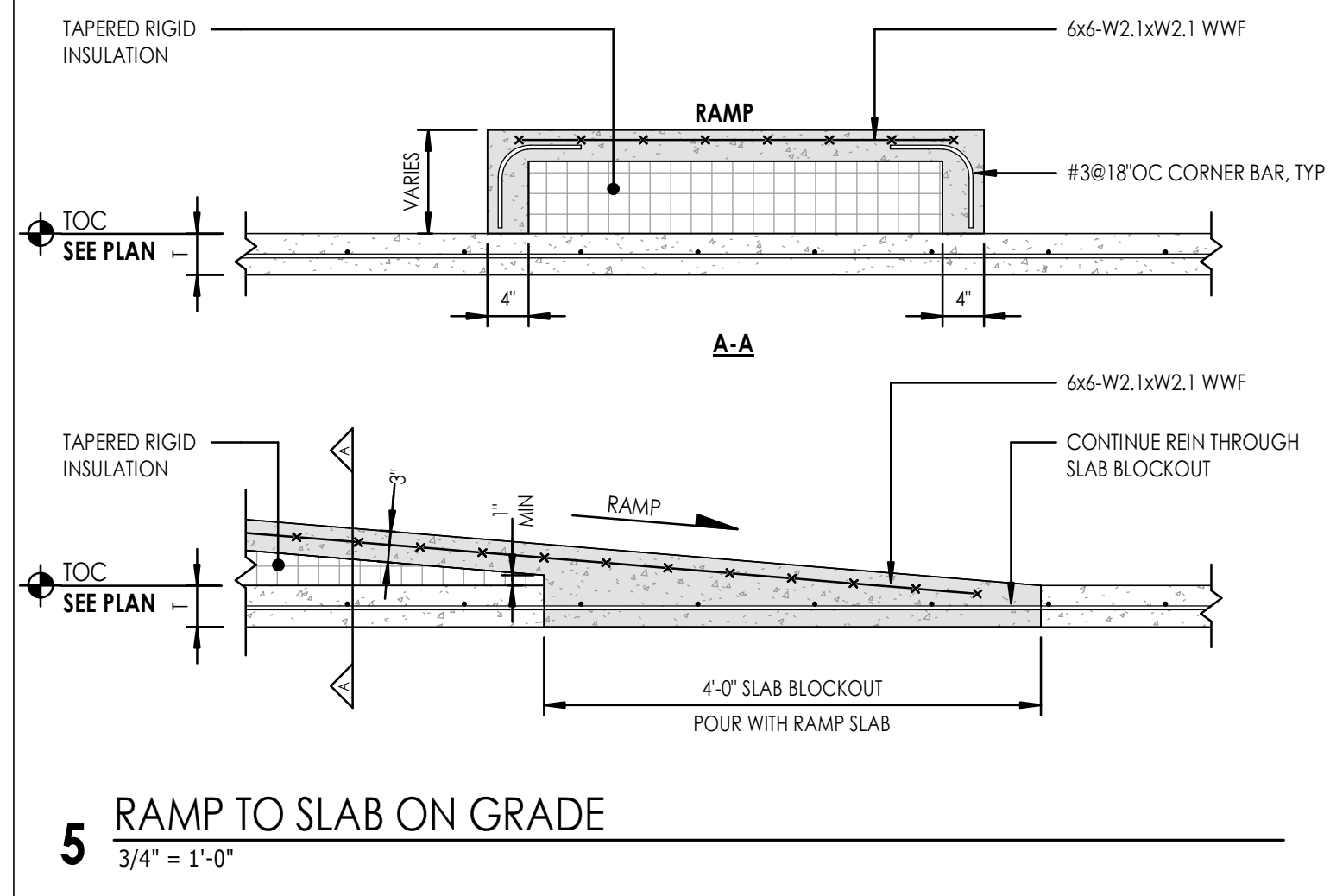
7 STEP IN SLAB ON GRADE
3/4" = 1'-0"



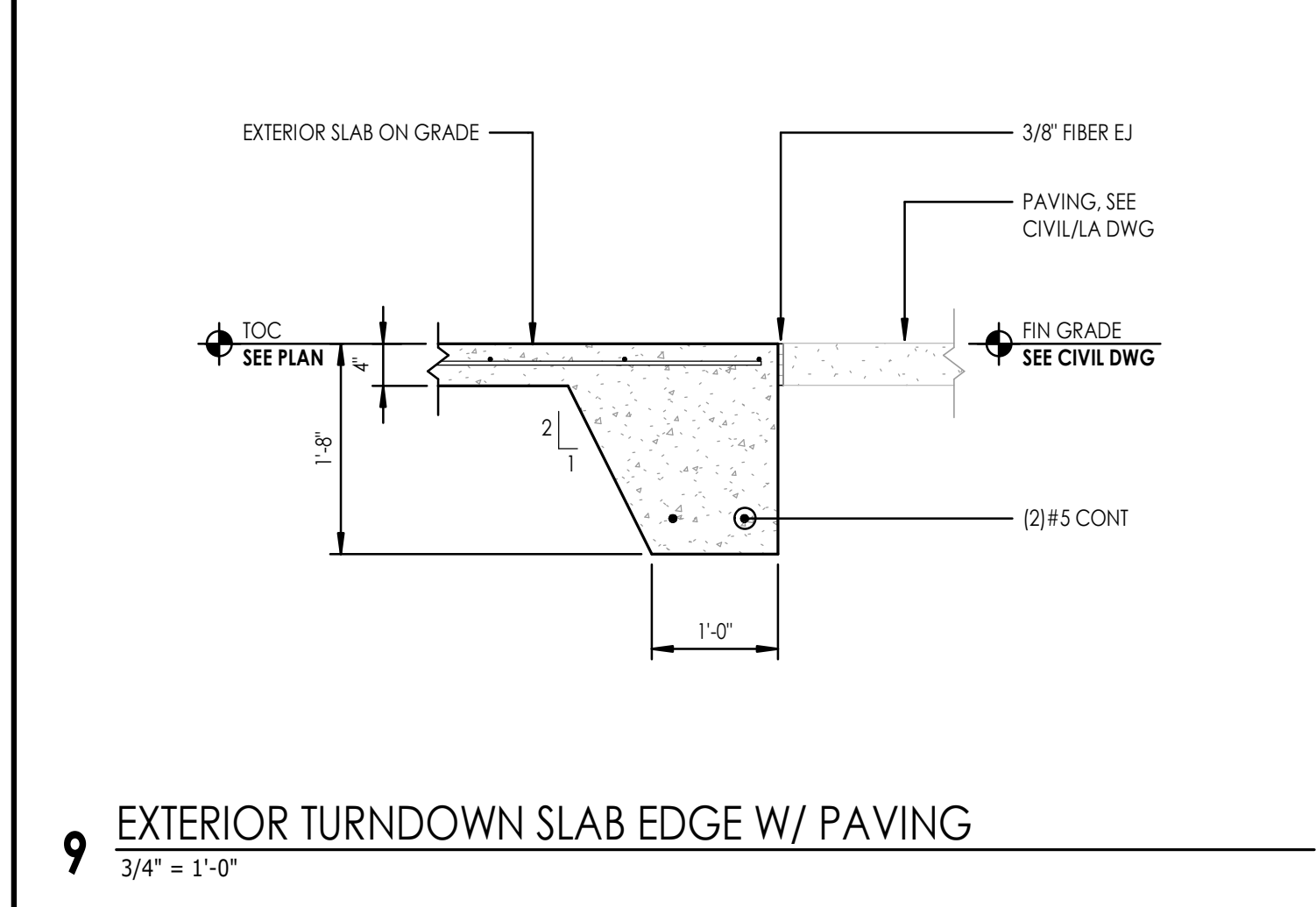
4 STAIR TO SLAB ON GRADE
3/4" = 1'-0"



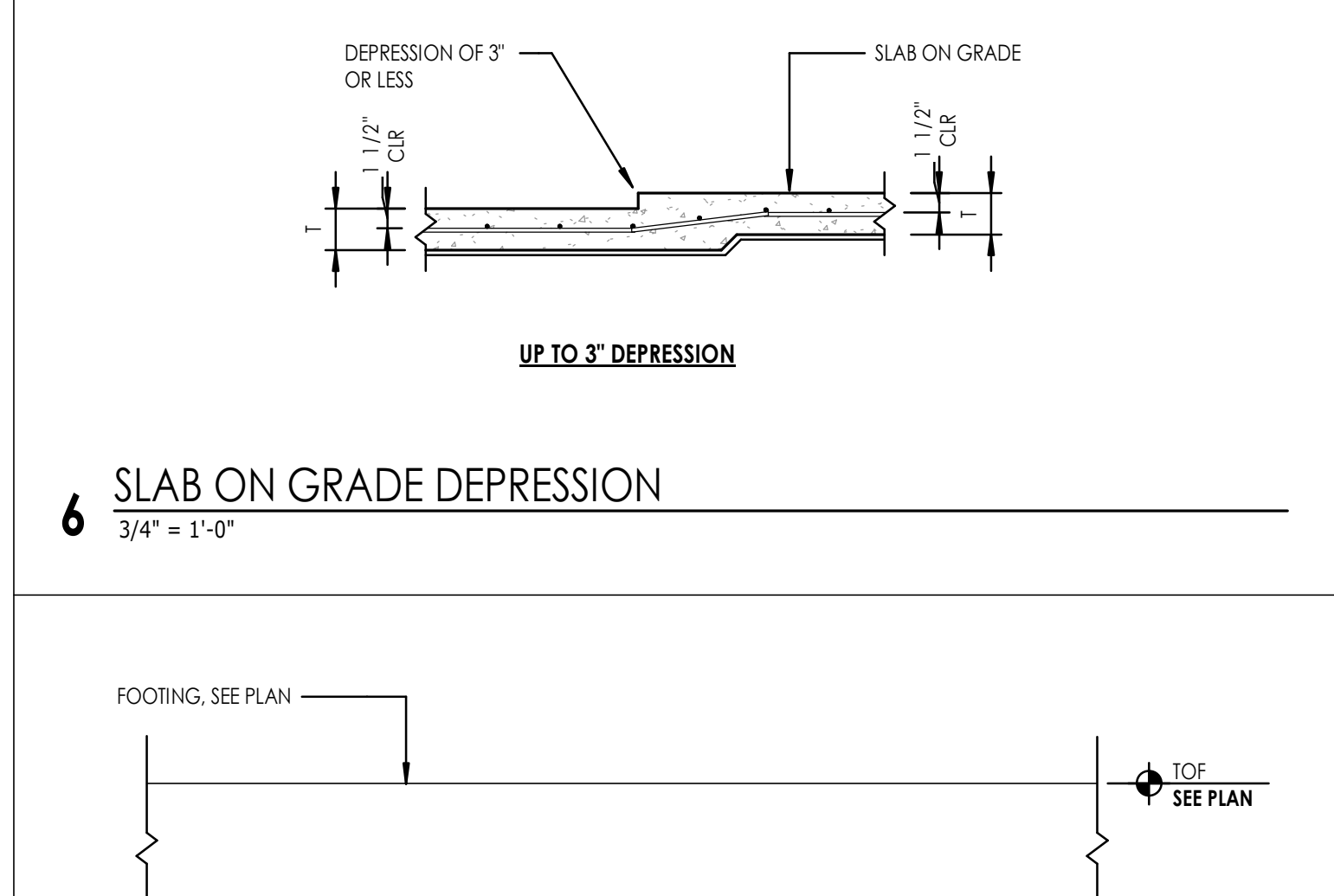
8 PERIMETER TURNDOWN W/ BRICK
3/4" = 1'-0"



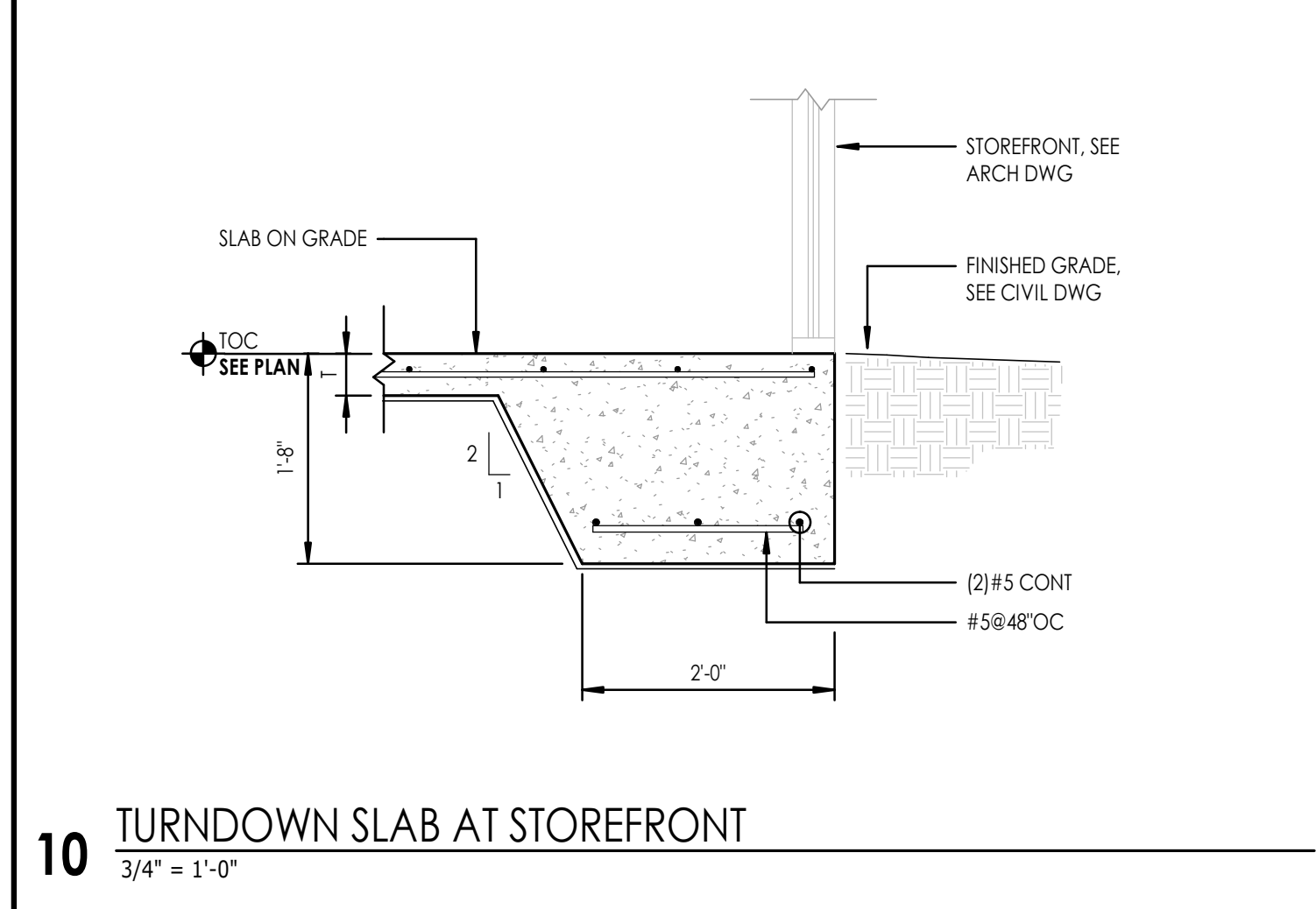
5 RAMP TO SLAB ON GRADE
3/4" = 1'-0"



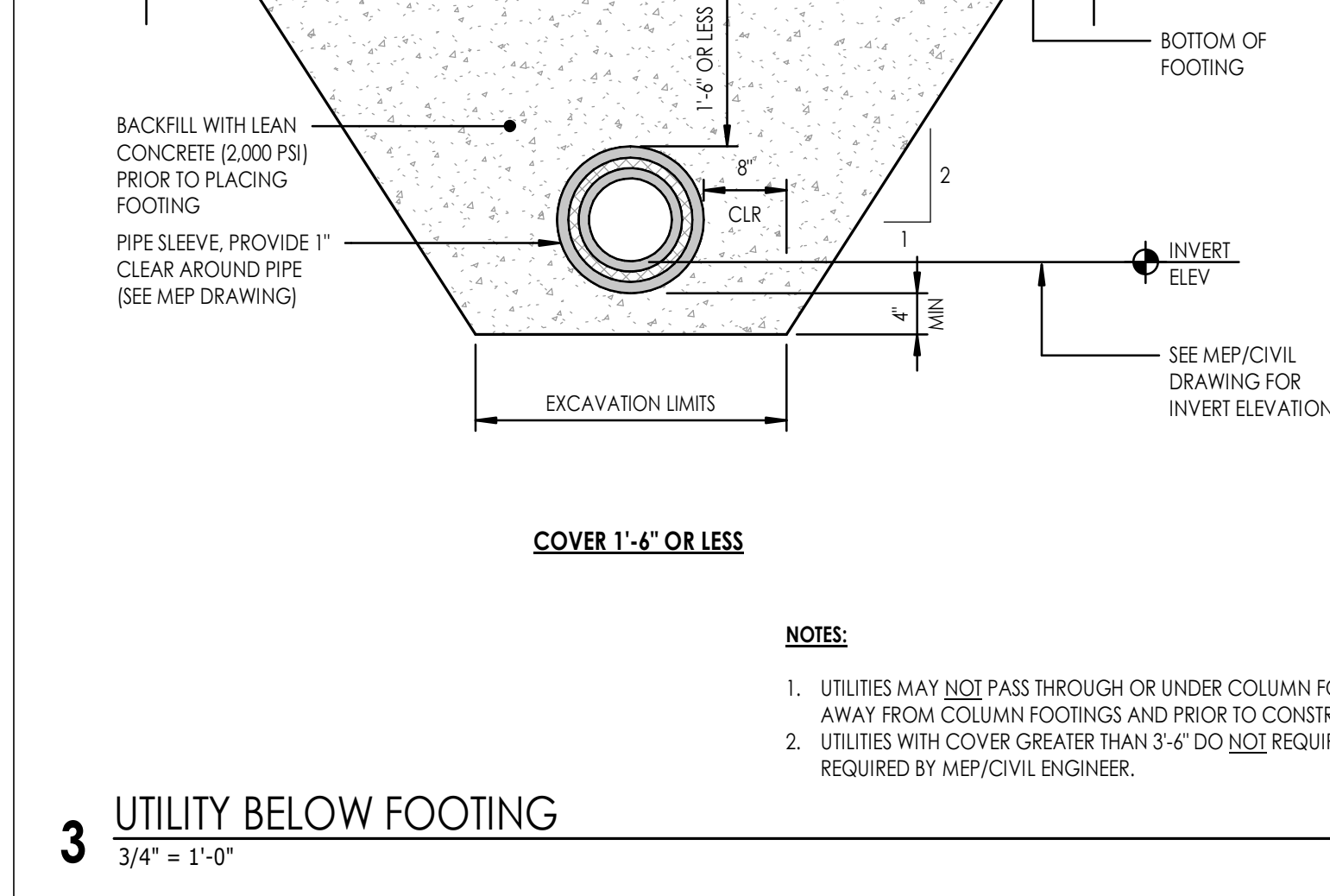
9 EXTERIOR TURNDOWN SLAB EDGE W/ PAVING
3/4" = 1'-0"



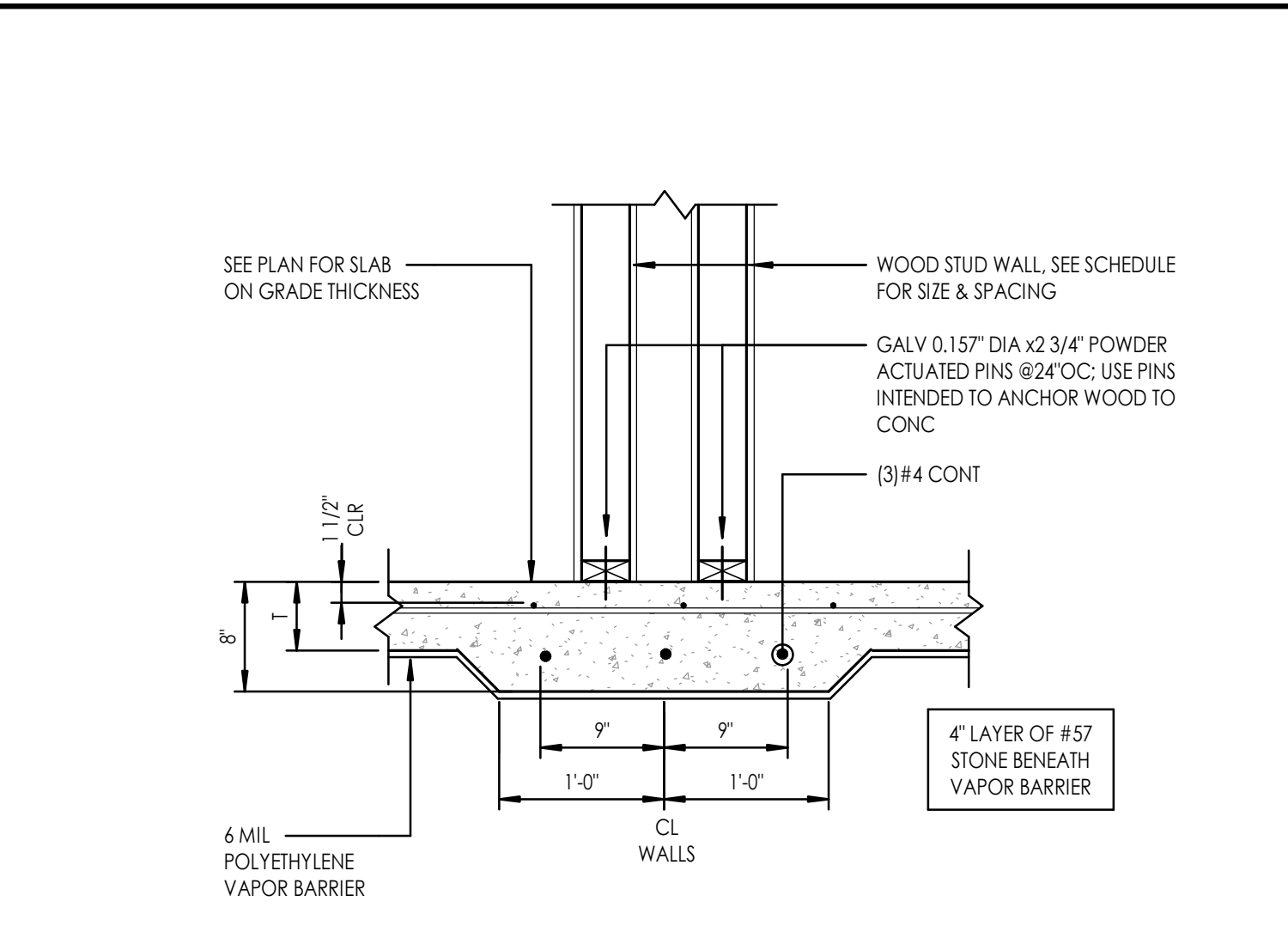
6 SLAB ON GRADE DEPRESSION
3/4" = 1'-0"



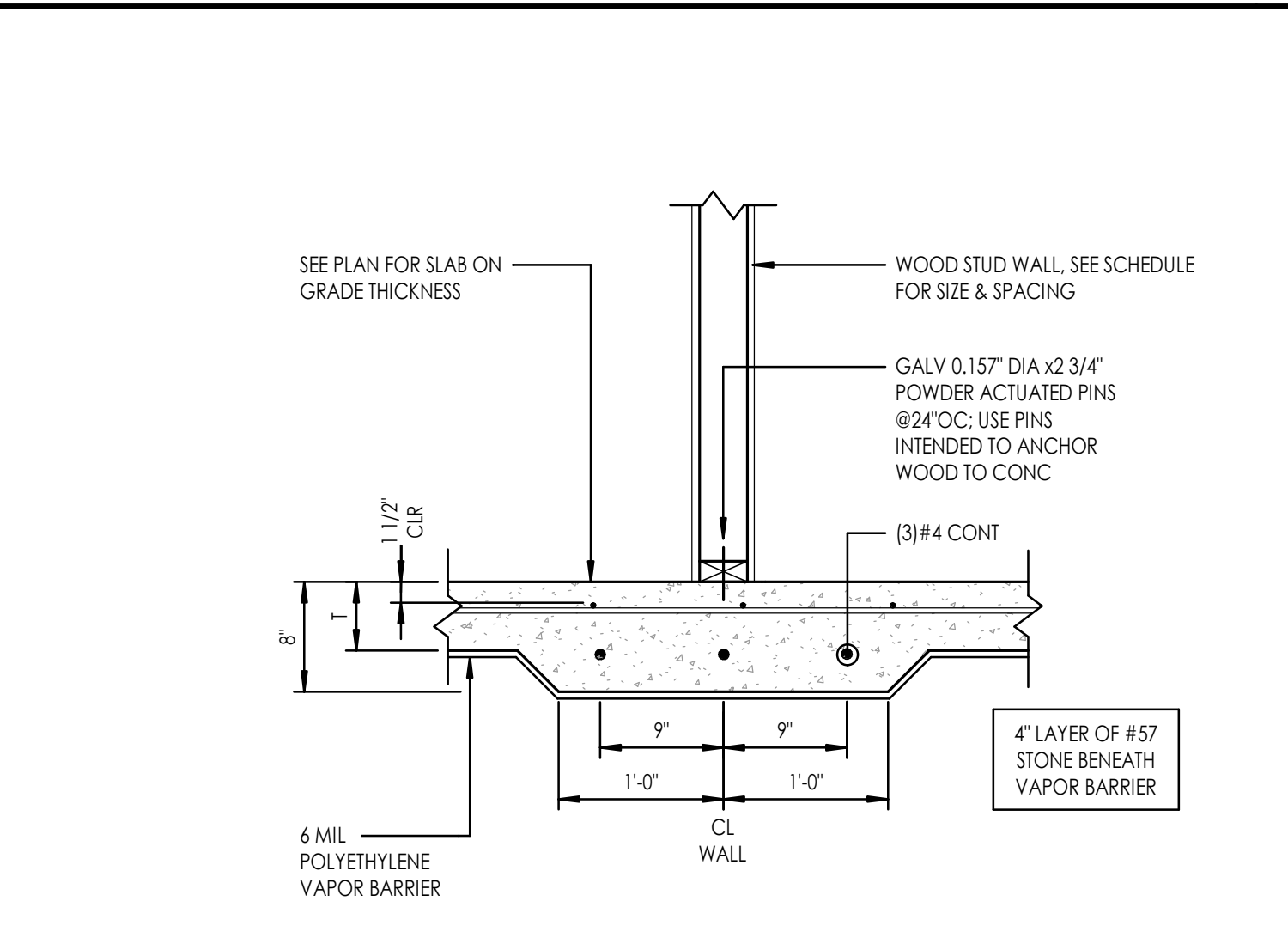
10 TURNDOWN SLAB AT STOREFRONT
3/4" = 1'-0"



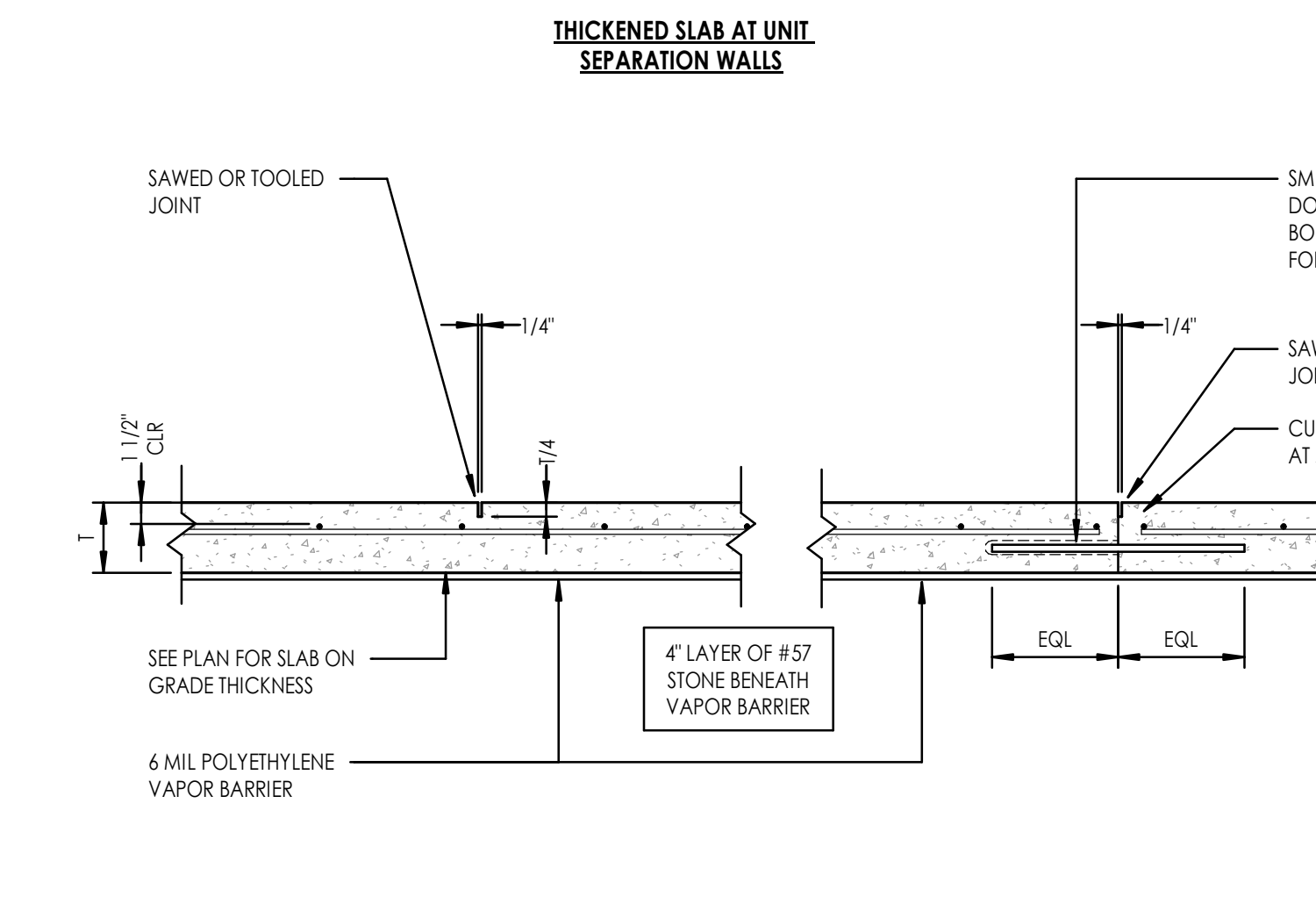
3 UTILITY BELOW FOOTING
3/4" = 1'-0"



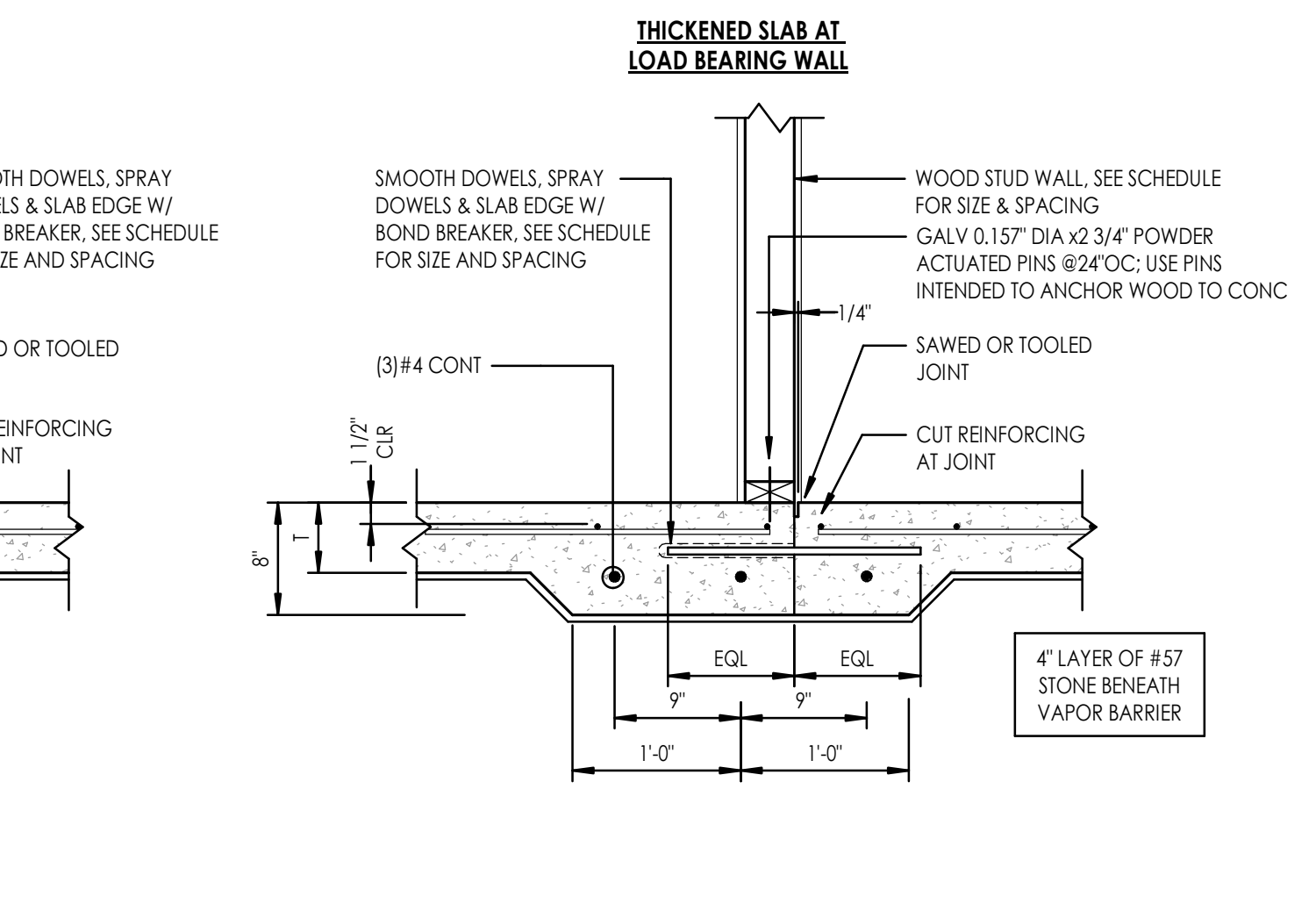
1 SLAB ON GRADE CONSTRUCTION - WOOD BLDG
1" = 1'-0"



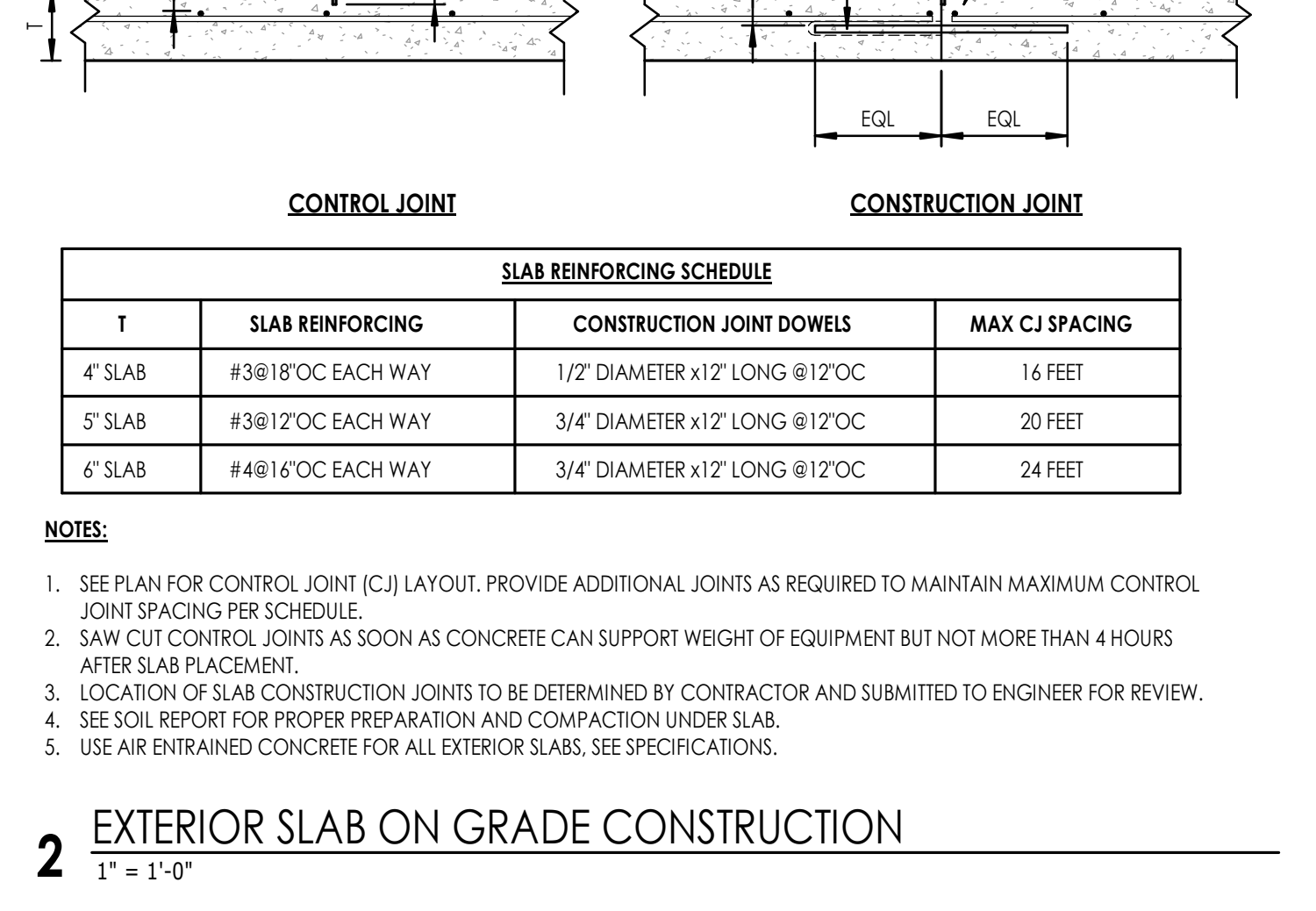
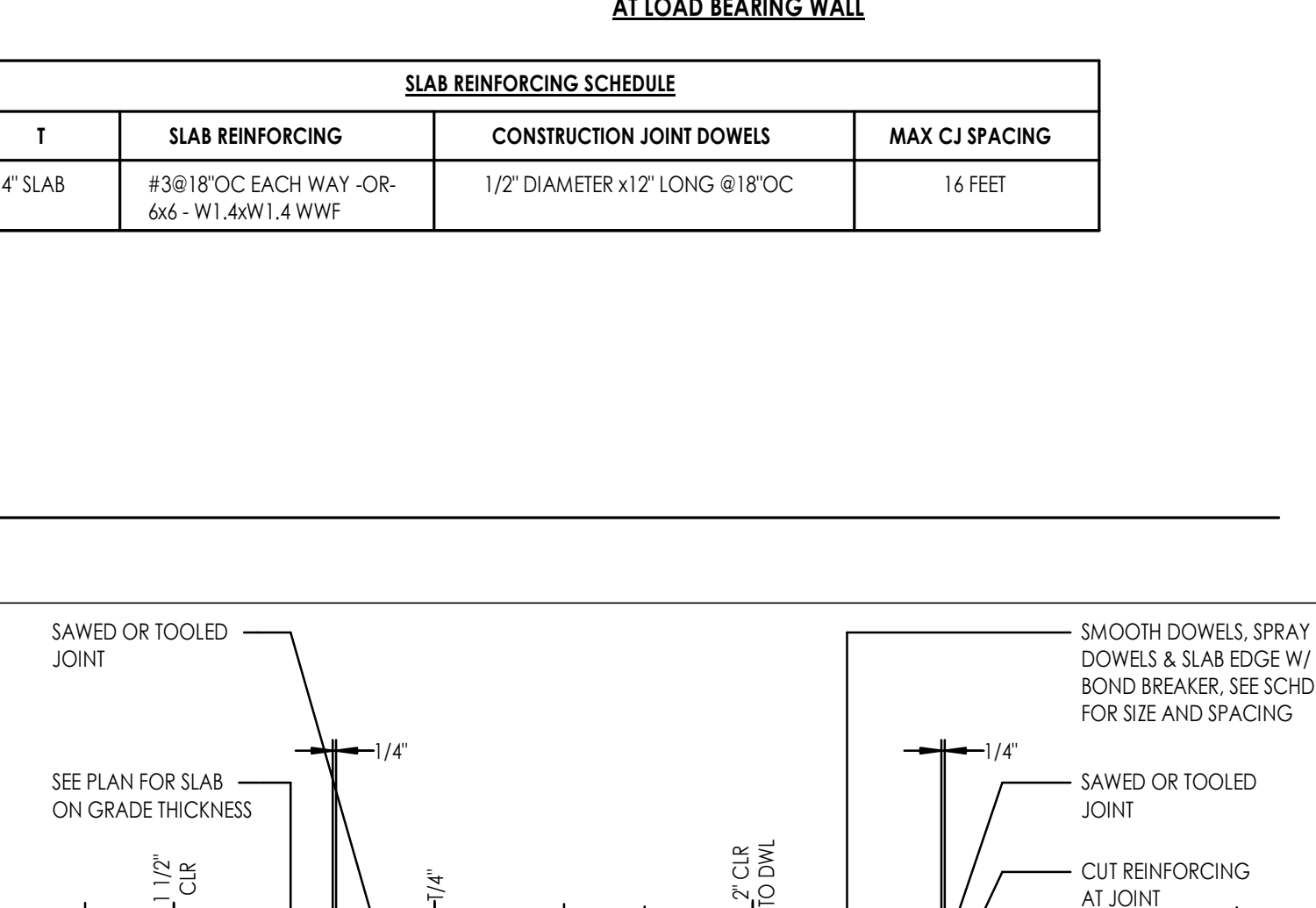
2 EXTERIOR SLAB ON GRADE CONSTRUCTION
1" = 1'-0"



- NOTES:**
1. SEE PLAN FOR CONTROL JOINT (CJ) LAYOUT. PROVIDE ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN MAXIMUM CONTROL JOINT SPACING PER SCHEDULE.
 2. SAW CUT CONTROL JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF EQUIPMENT BUT NOT MORE THAN 4 HOURS AFTER SLAB PLACEMENT.
 3. LOCATION OF SLAB CONSTRUCTION JOINTS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.
 4. SEE SOIL REPORT FOR PROPER PREPARATION AND COMPACTION UNDER SLAB.



SLAB REINFORCING SCHEDULE			
T	SLAB REINFORCING	CONSTRUCTION JOINT DOWELS	MAX CJ SPACING
4" SLAB	#3 @ 18" OC EACH WAY -OR- 6x6 - W1.4xW1.4 WWF	1/2" DIAMETER x 12" LONG @ 18" OC	16 FEET



- NOTES:**
1. SEE PLAN FOR CONTROL JOINT (CJ) LAYOUT. PROVIDE ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN MAXIMUM CONTROL JOINT SPACING PER SCHEDULE.
 2. SAW CUT CONTROL JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF EQUIPMENT BUT NOT MORE THAN 4 HOURS AFTER SLAB PLACEMENT.
 3. LOCATION OF SLAB CONSTRUCTION JOINTS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.
 4. SEE SOIL REPORT FOR PROPER PREPARATION AND COMPACTION UNDER SLAB.
 5. USE AIR ENTRAINED CONCRETE FOR ALL EXTERIOR SLABS. SEE SPECIFICATIONS.

SLAB REINFORCING SCHEDULE			
T	SLAB REINFORCING	CONSTRUCTION JOINT DOWELS	MAX CJ SPACING
4" SLAB	#3 @ 18" OC EACH WAY	1/2" DIAMETER x 12" LONG @ 12" OC	16 FEET
5" SLAB	#3 @ 12" OC EACH WAY	3/4" DIAMETER x 12" LONG @ 12" OC	20 FEET
6" SLAB	#4 @ 16" OC EACH WAY	3/4" DIAMETER x 12" LONG @ 12" OC	24 FEET

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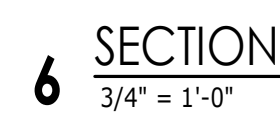
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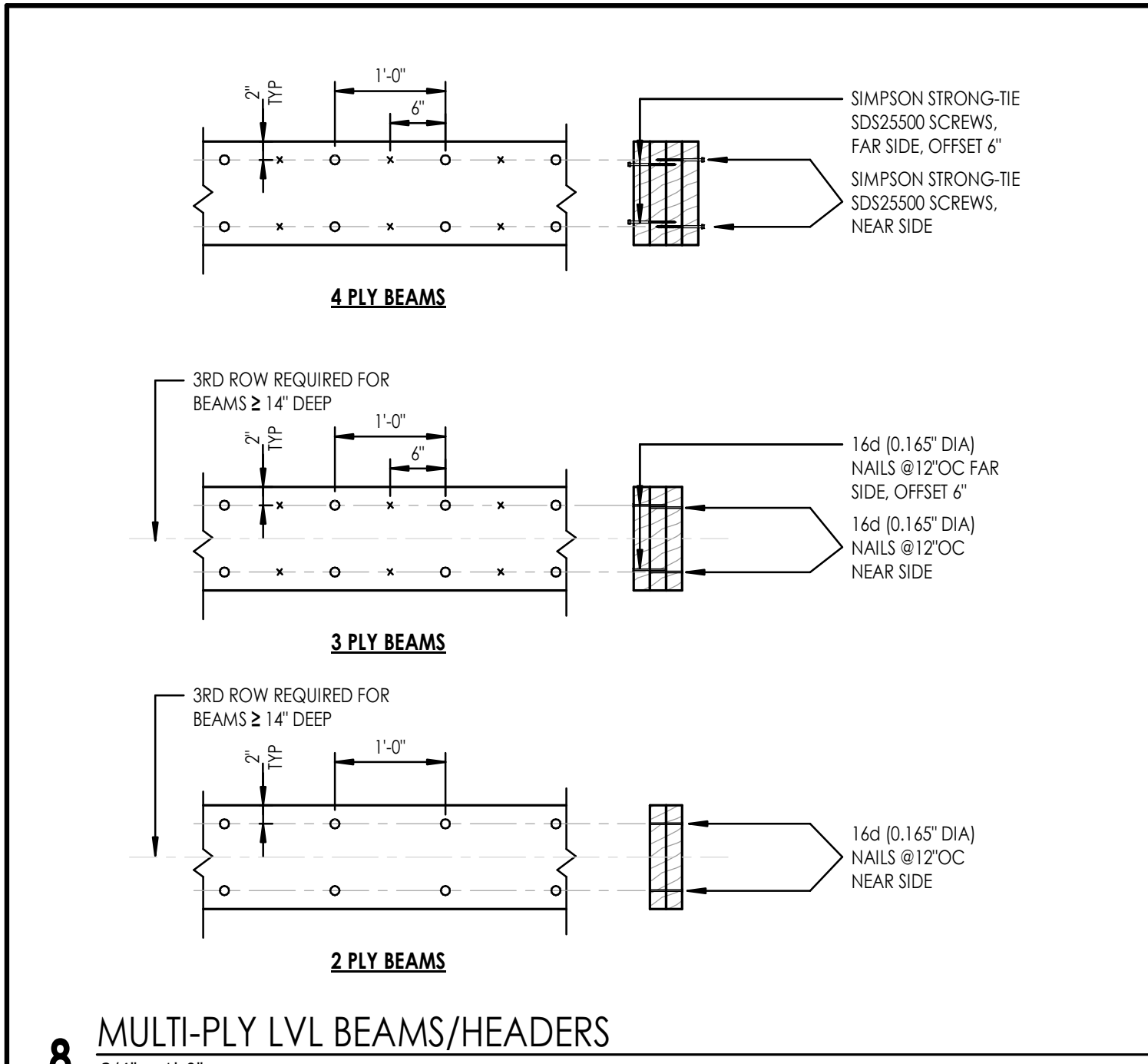
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SHEET TITLE
FOUNDATION
SECTIONS &
DETAILS

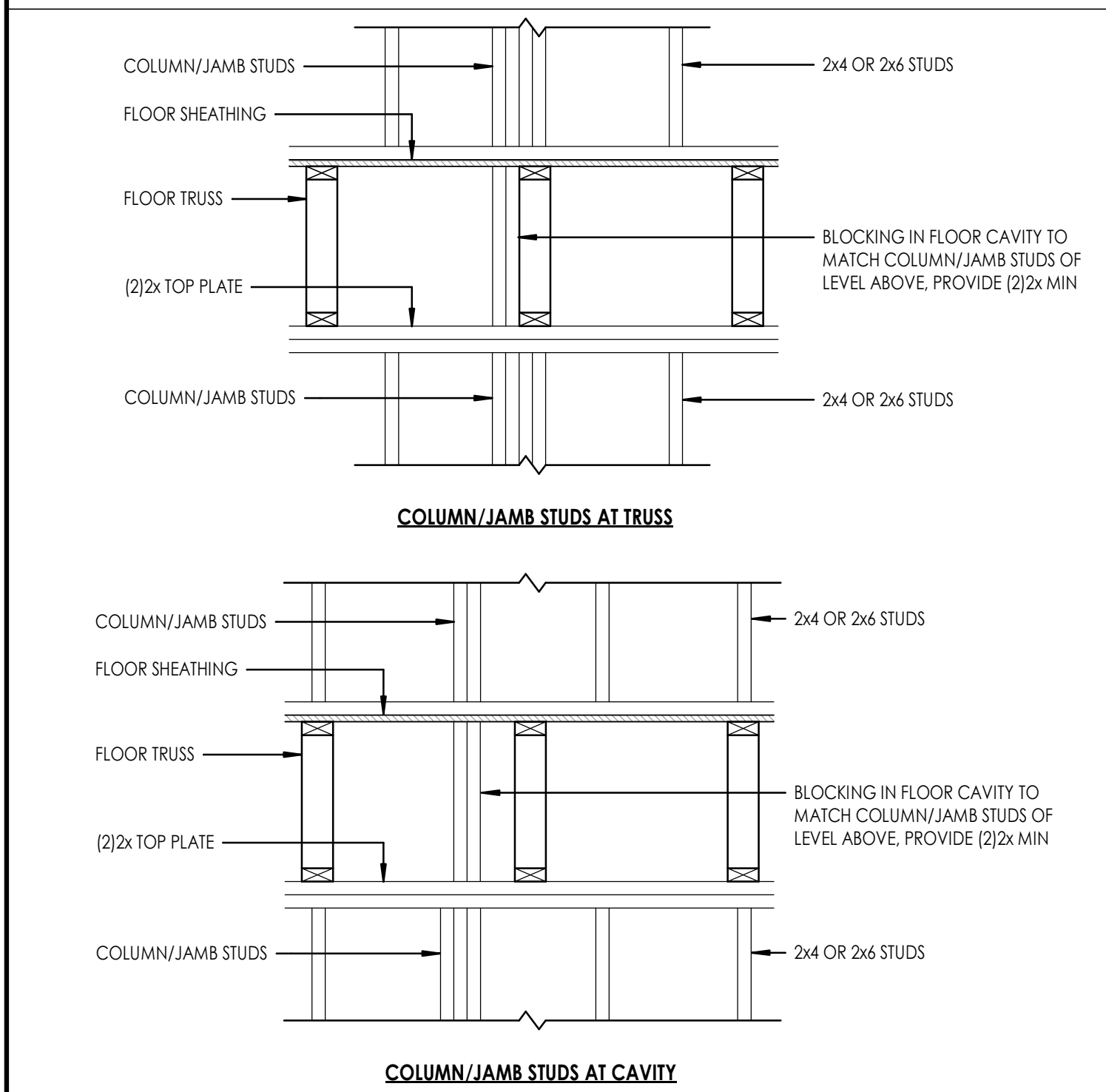
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S201

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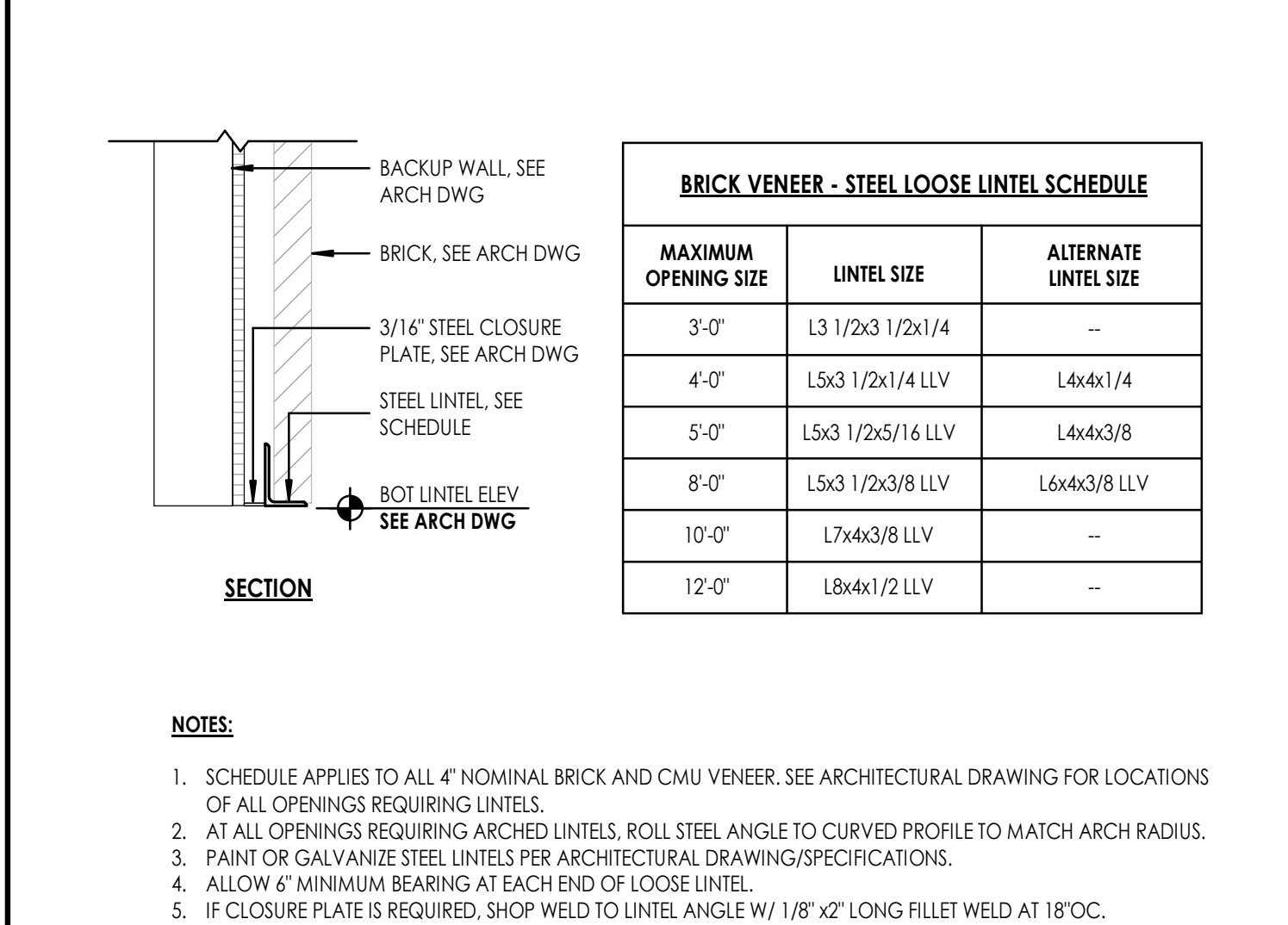




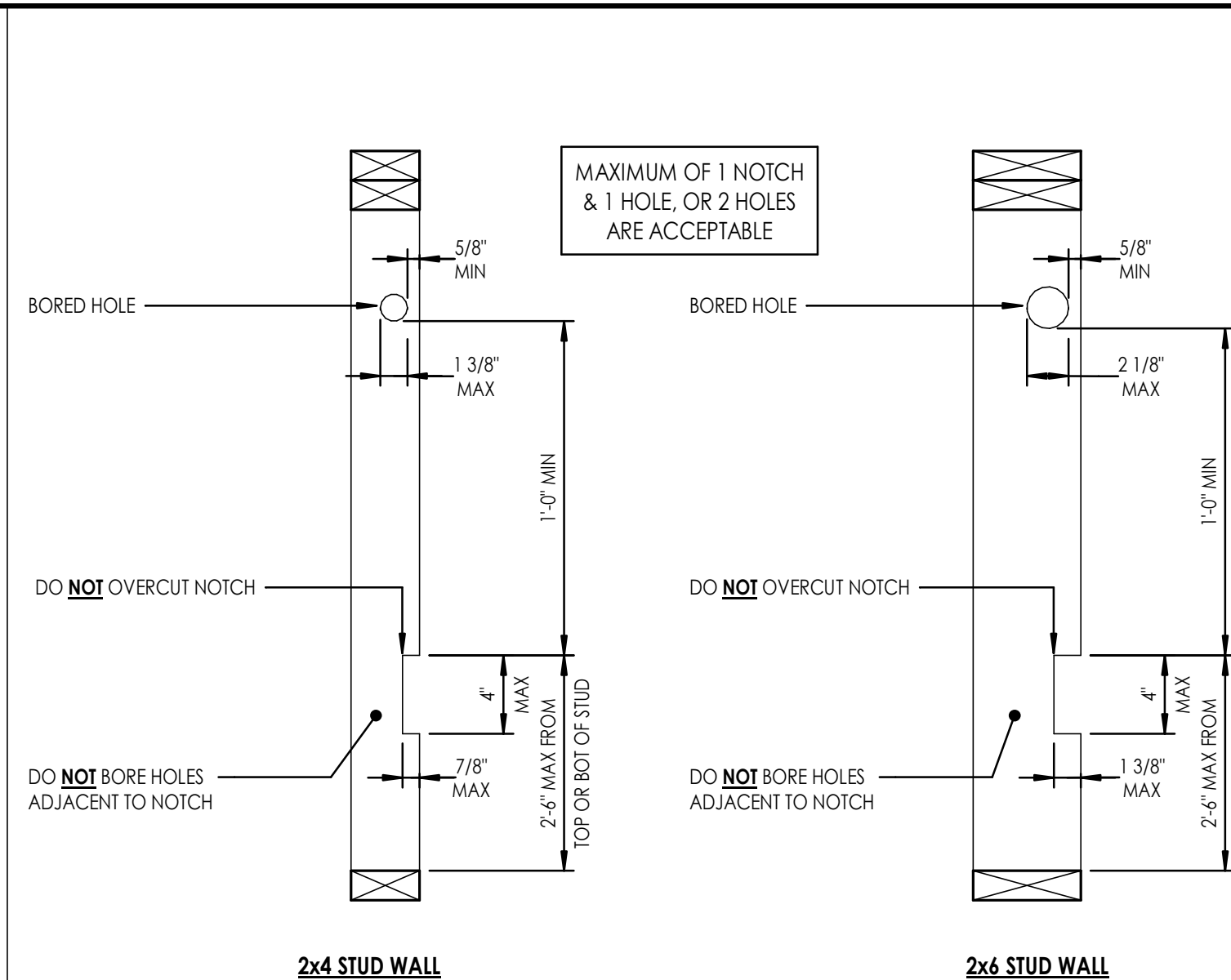
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3/4" = 1'-0"



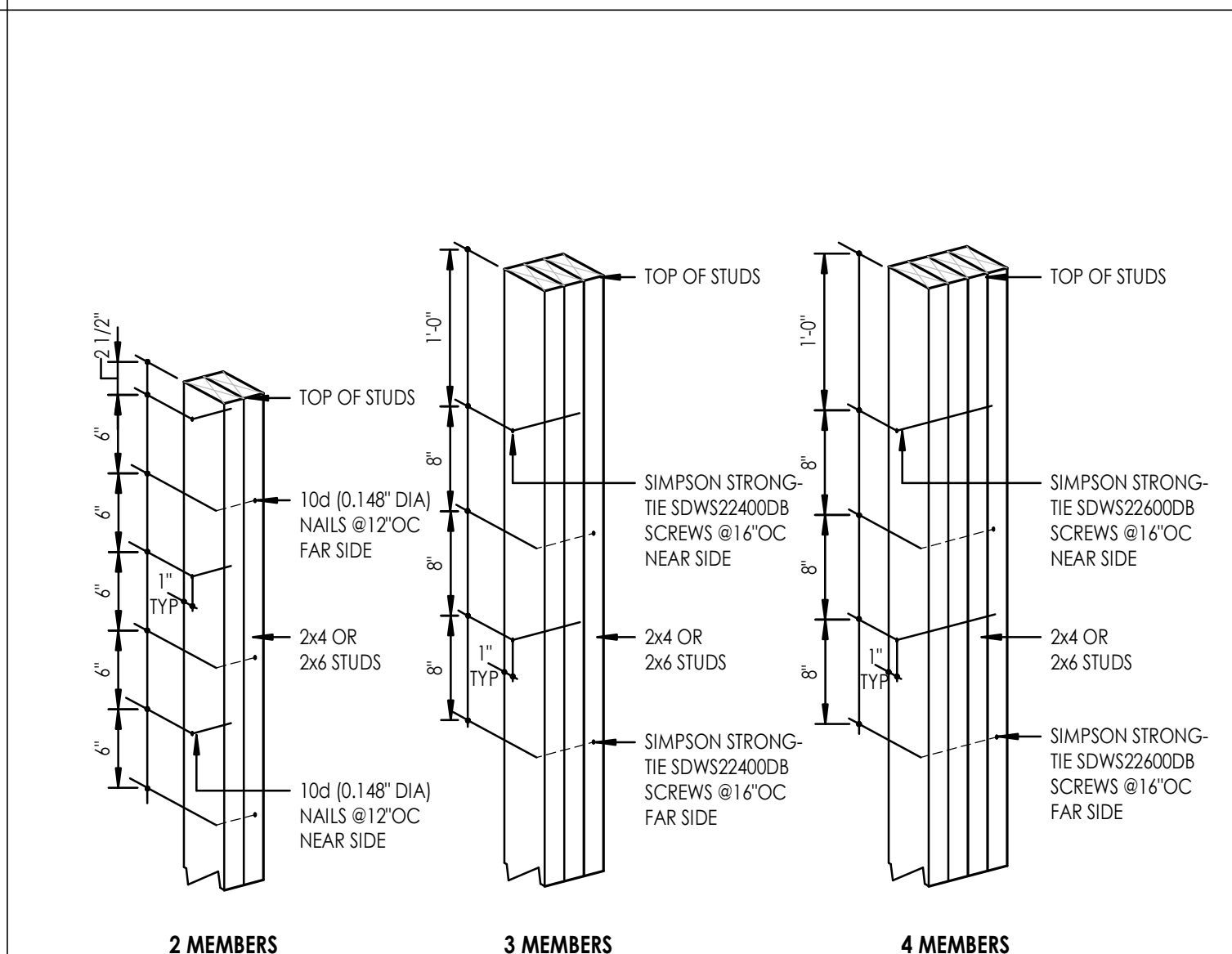
9 COLUMN BLOCKING BETWEEN FLOORS
3/4" = 1'-0"



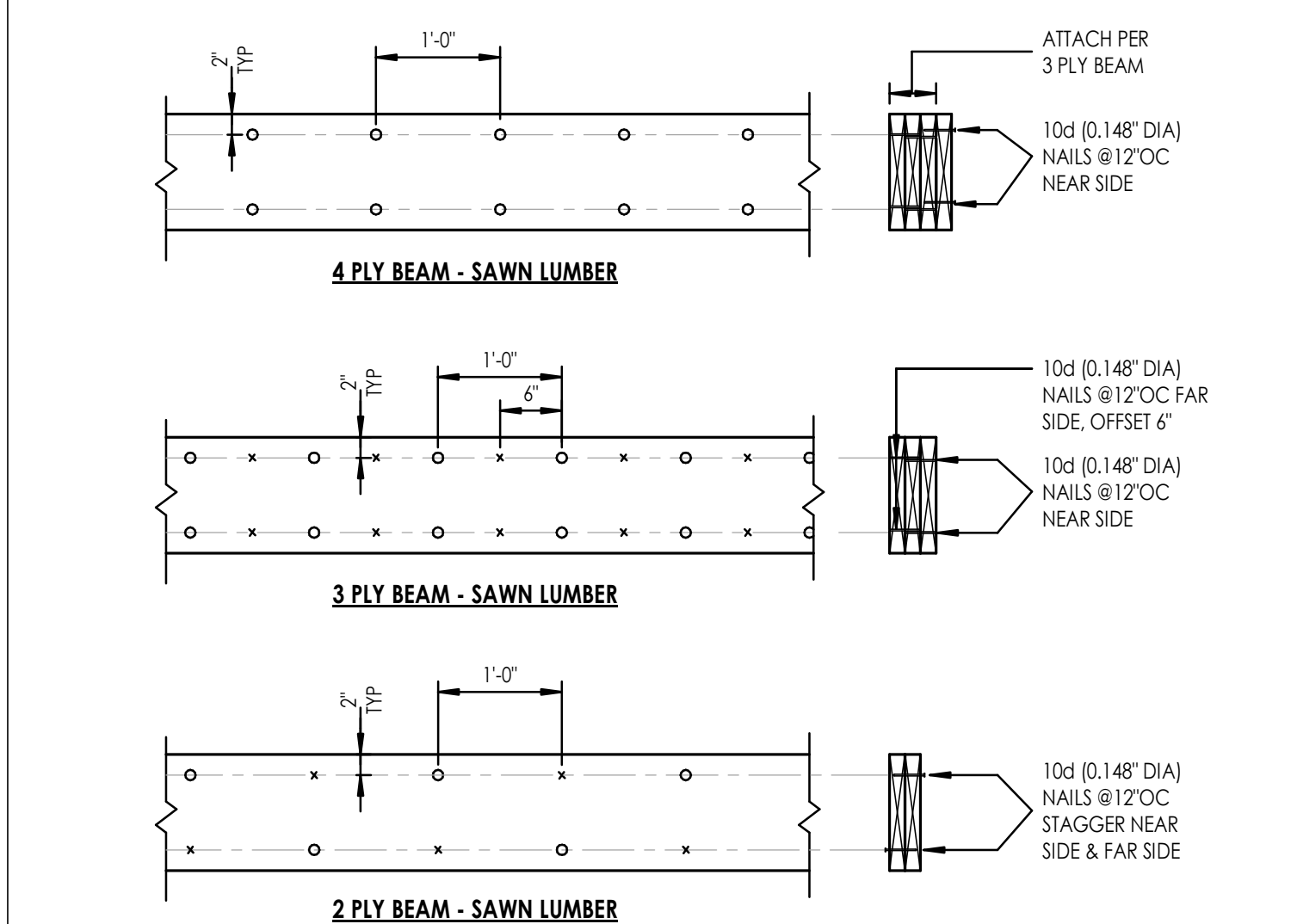
10 STEEL LOOSE LINTEL SCHEDULE
3/4" = 1'-0"



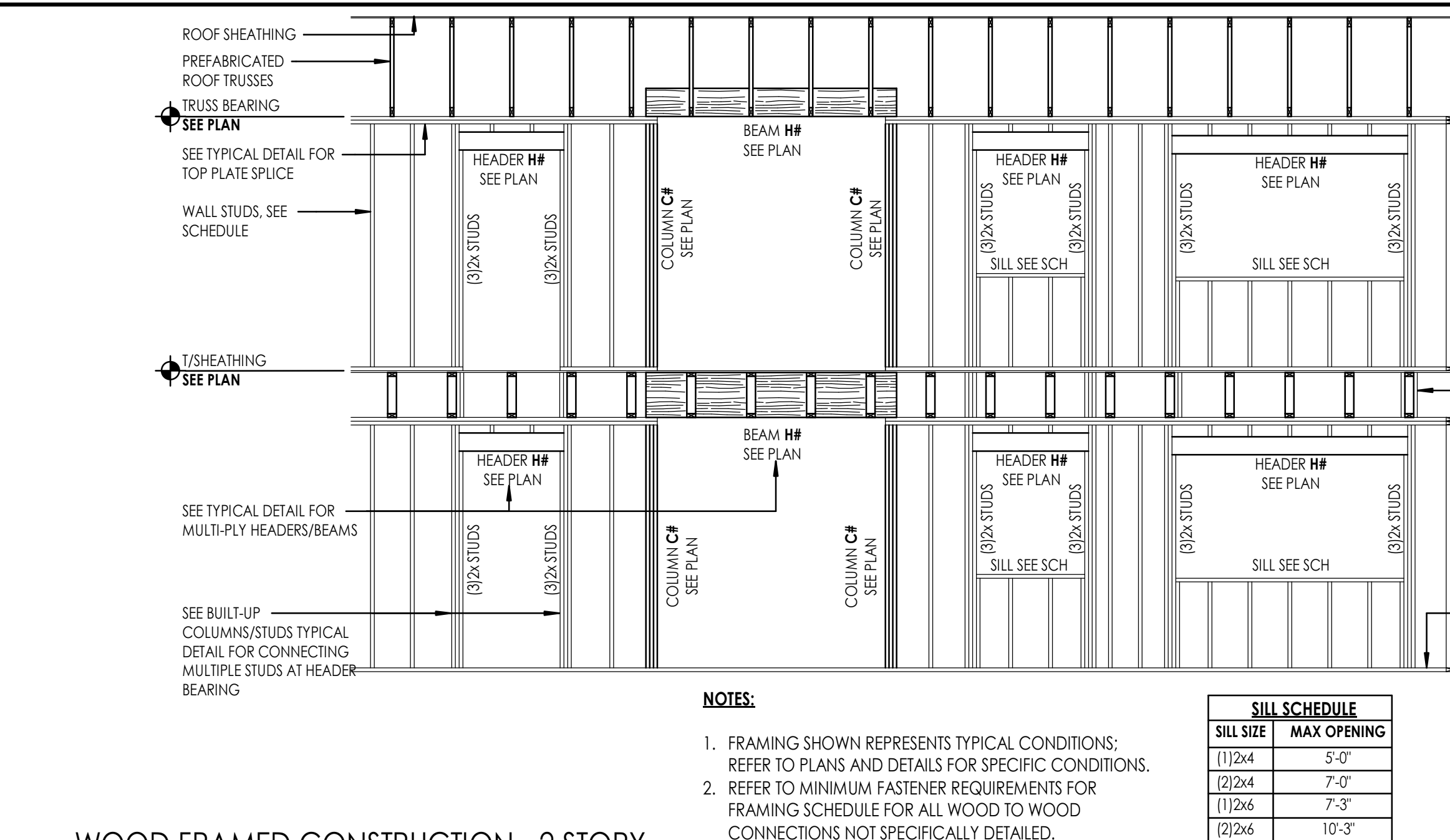
5 ALLOWABLE HOLES & NOTCHES IN STUDS
1 1/2" = 1'-0"



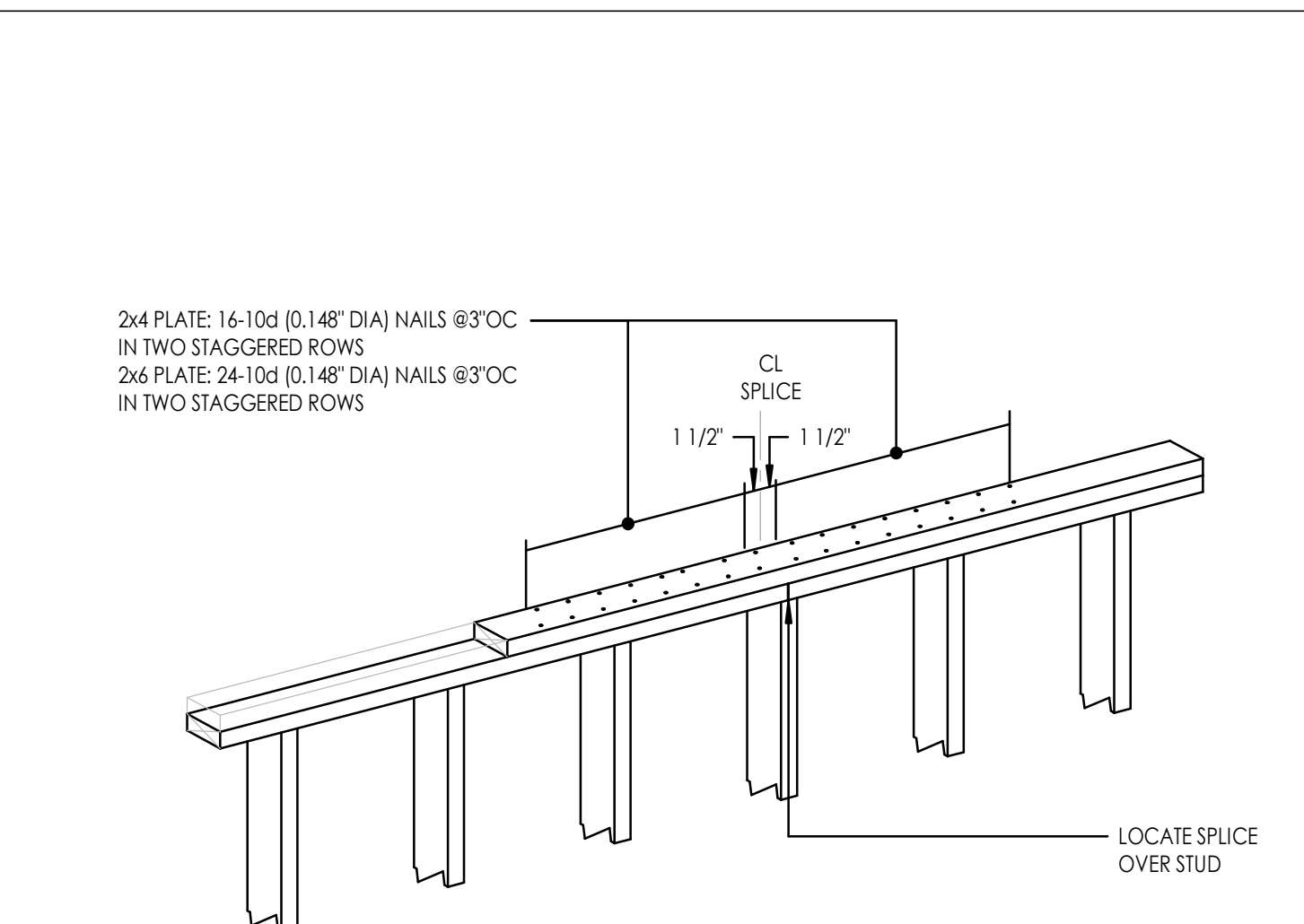
6 BUILT-UP COLUMNS/STUDS
1" = 1'-0"



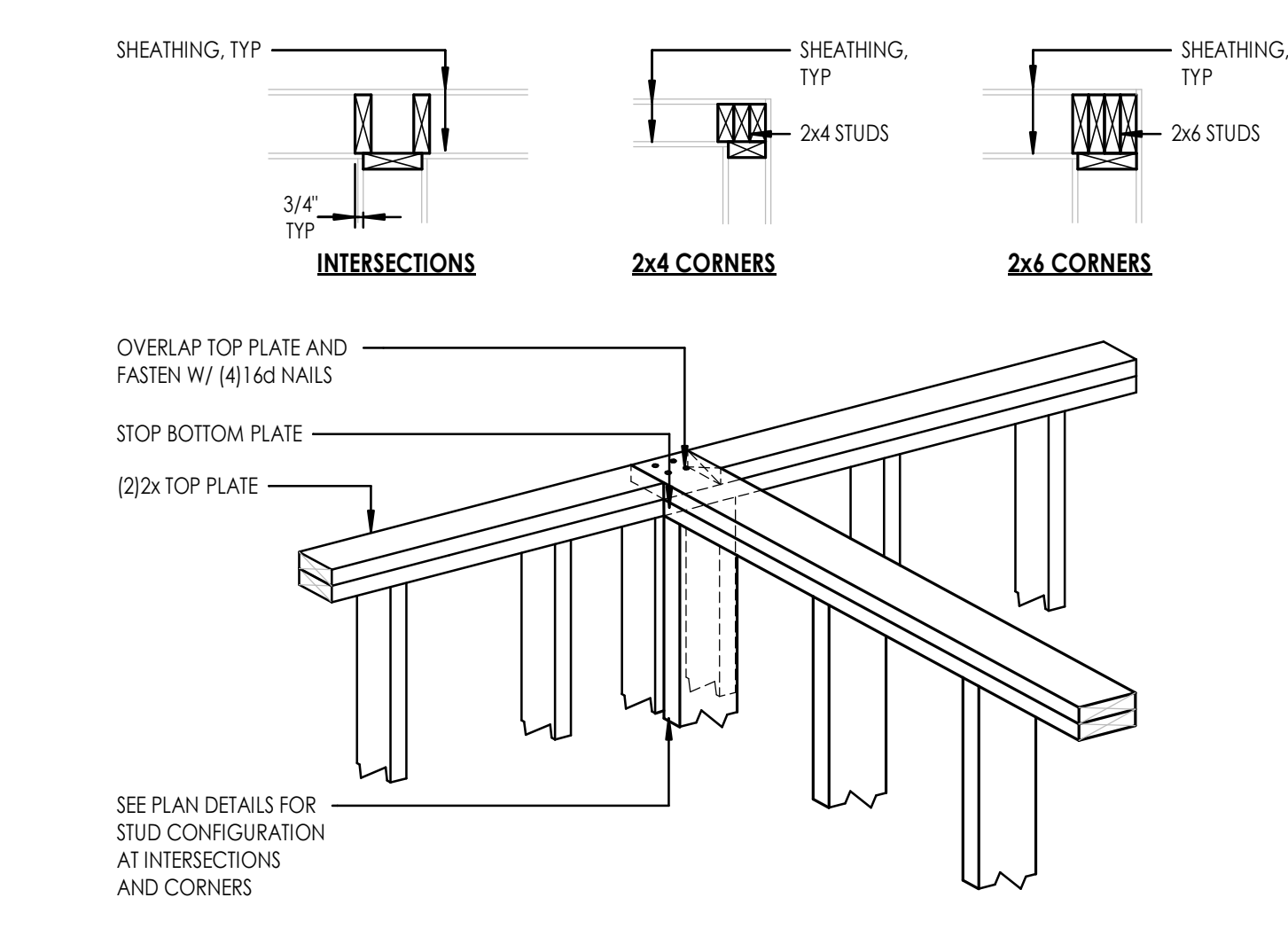
7 MULTI-PLY SAWN LUMBER BEAMS/HEADERS
3/4" = 1'-0"



1 WOOD FRAMED CONSTRUCTION - 2 STORY
1/4" = 1'-0"



3 TOP PLATE SPLICE
3/4" = 1'-0"

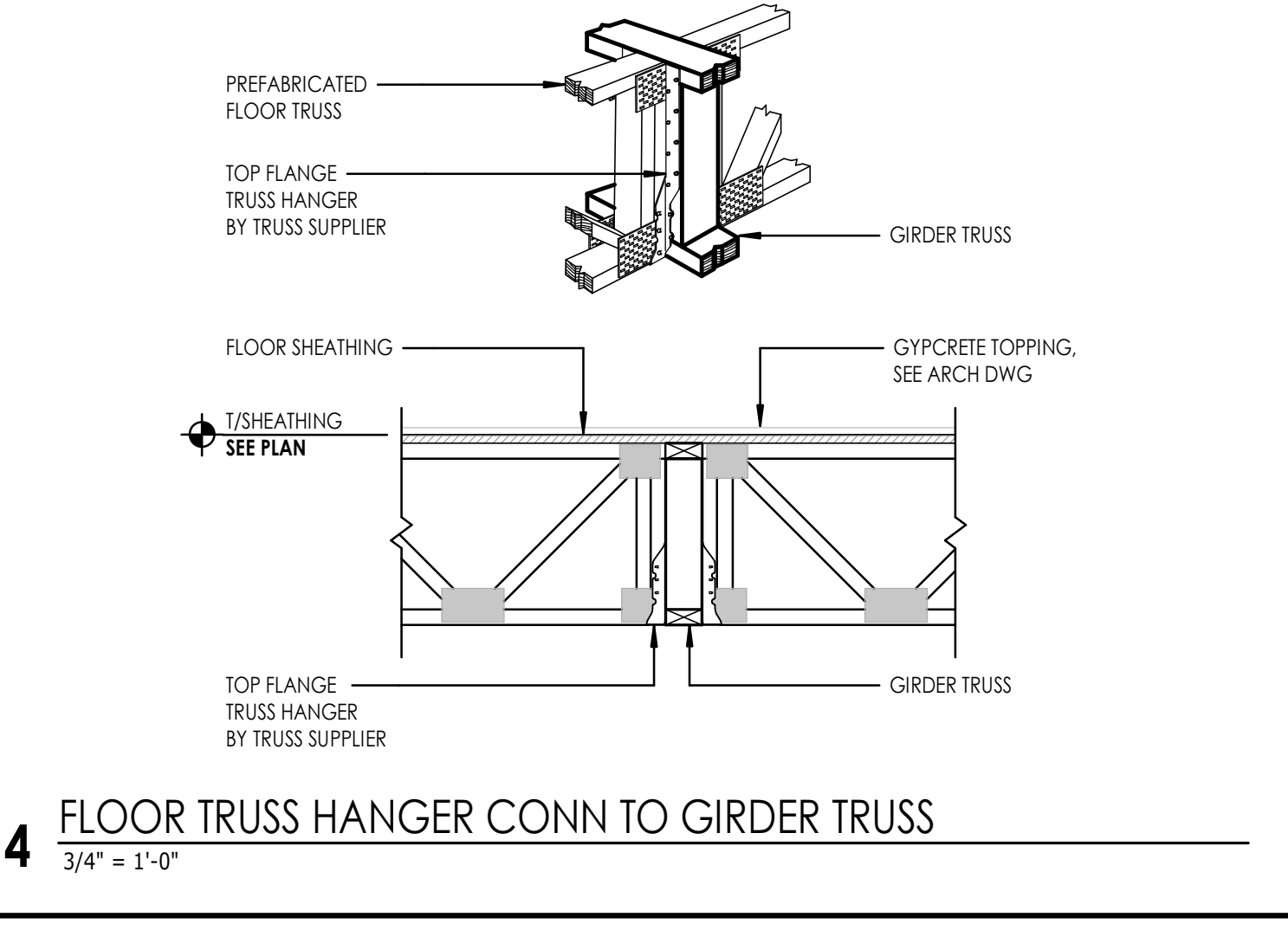
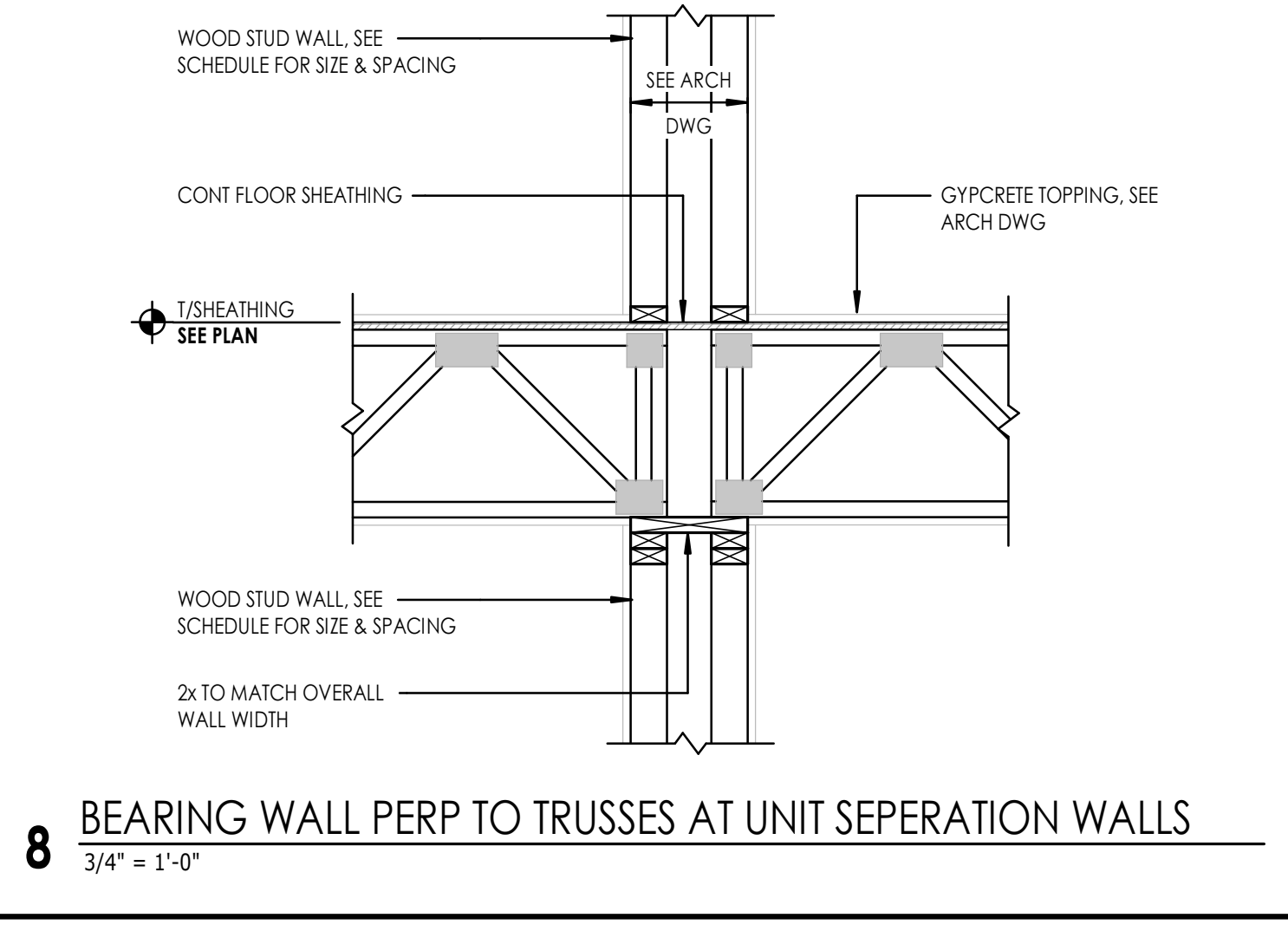
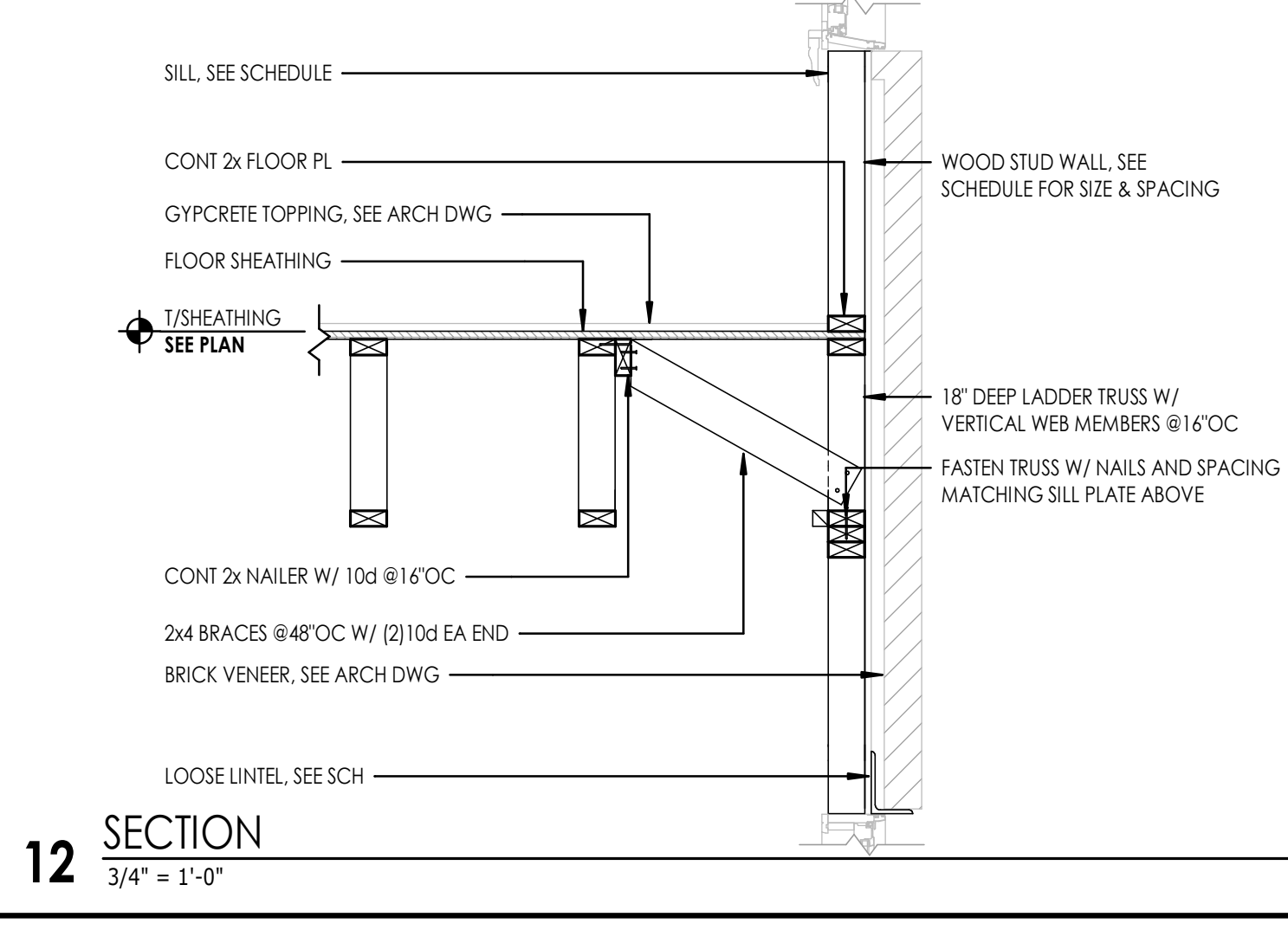
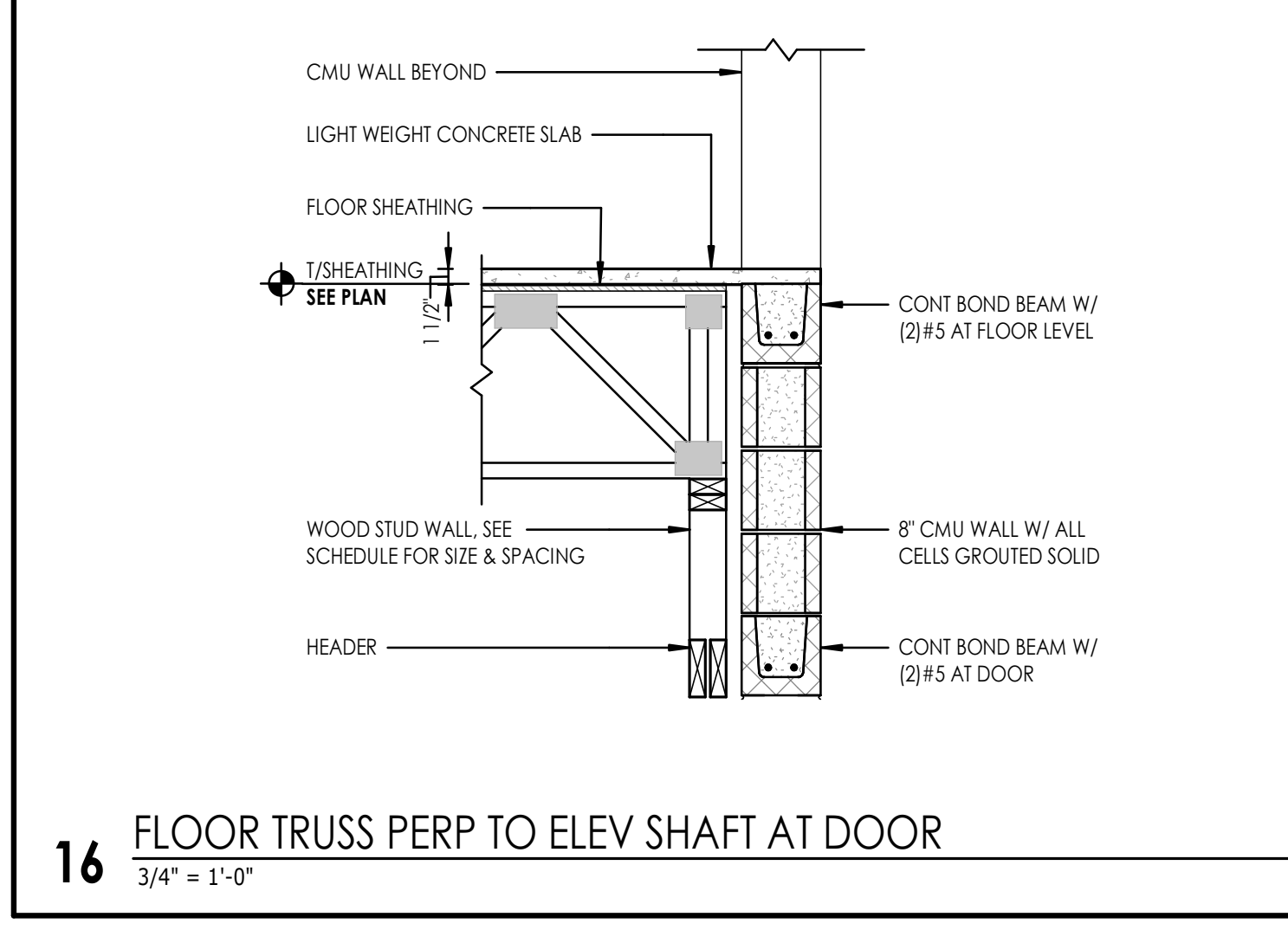
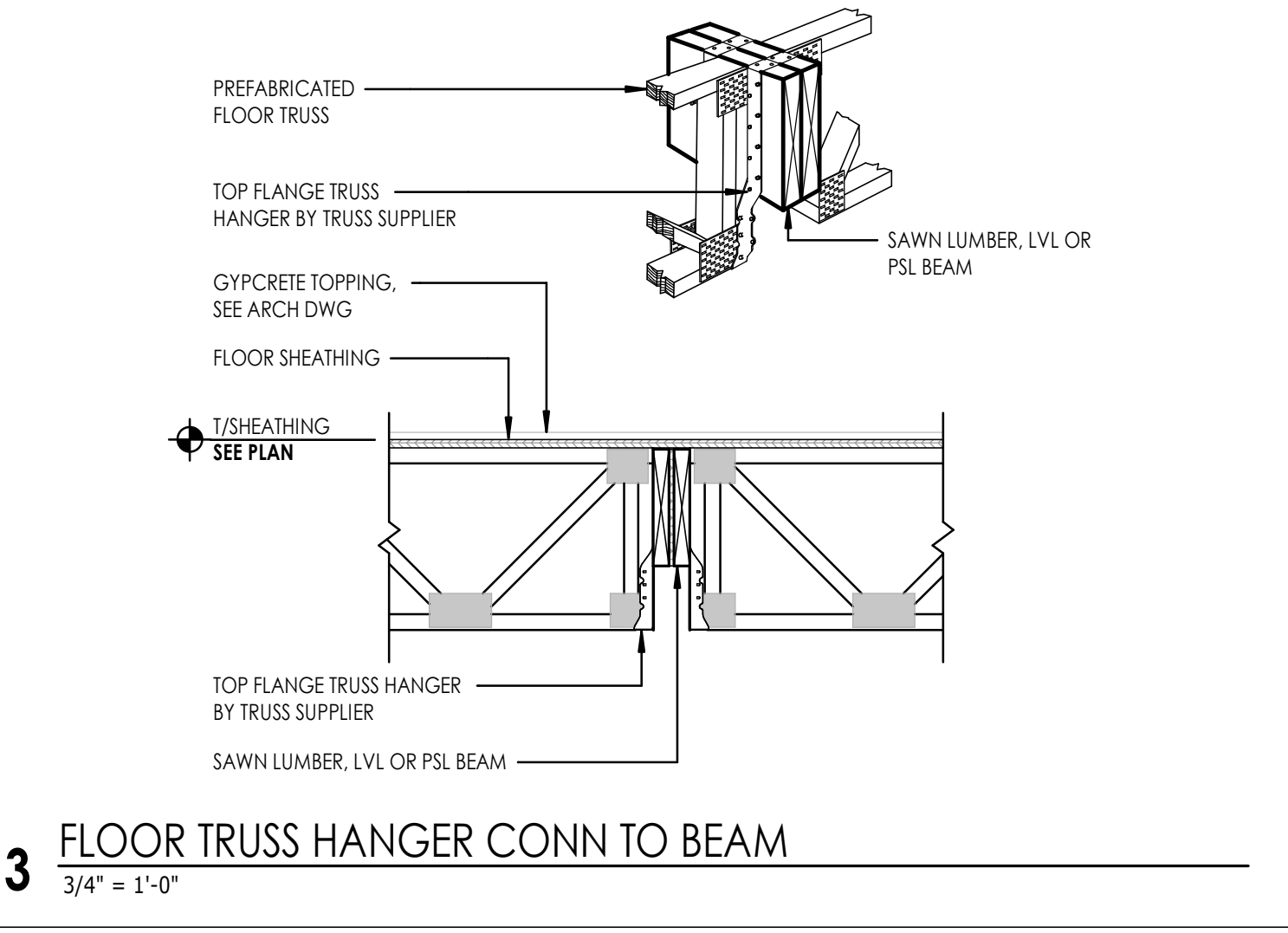
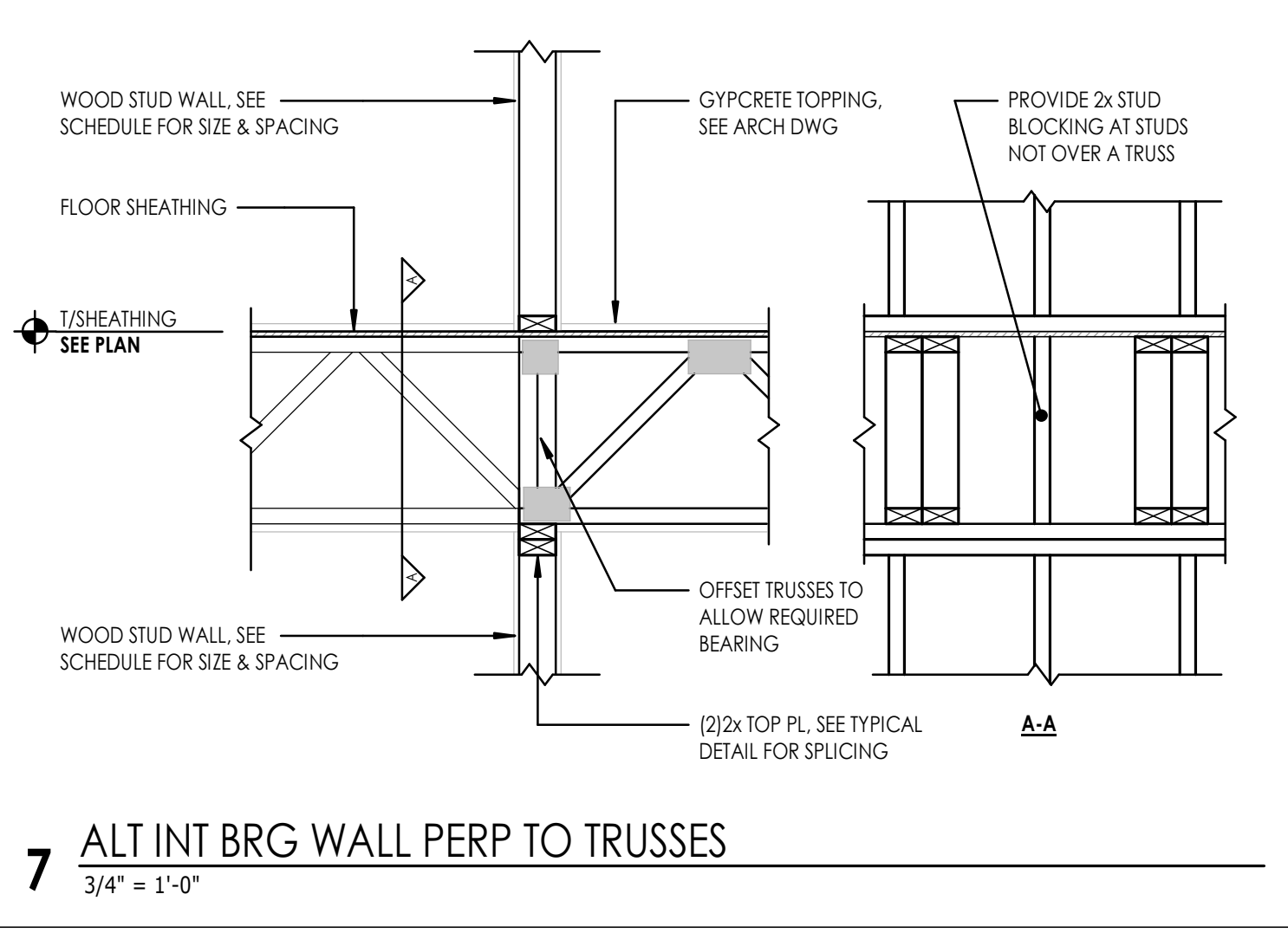
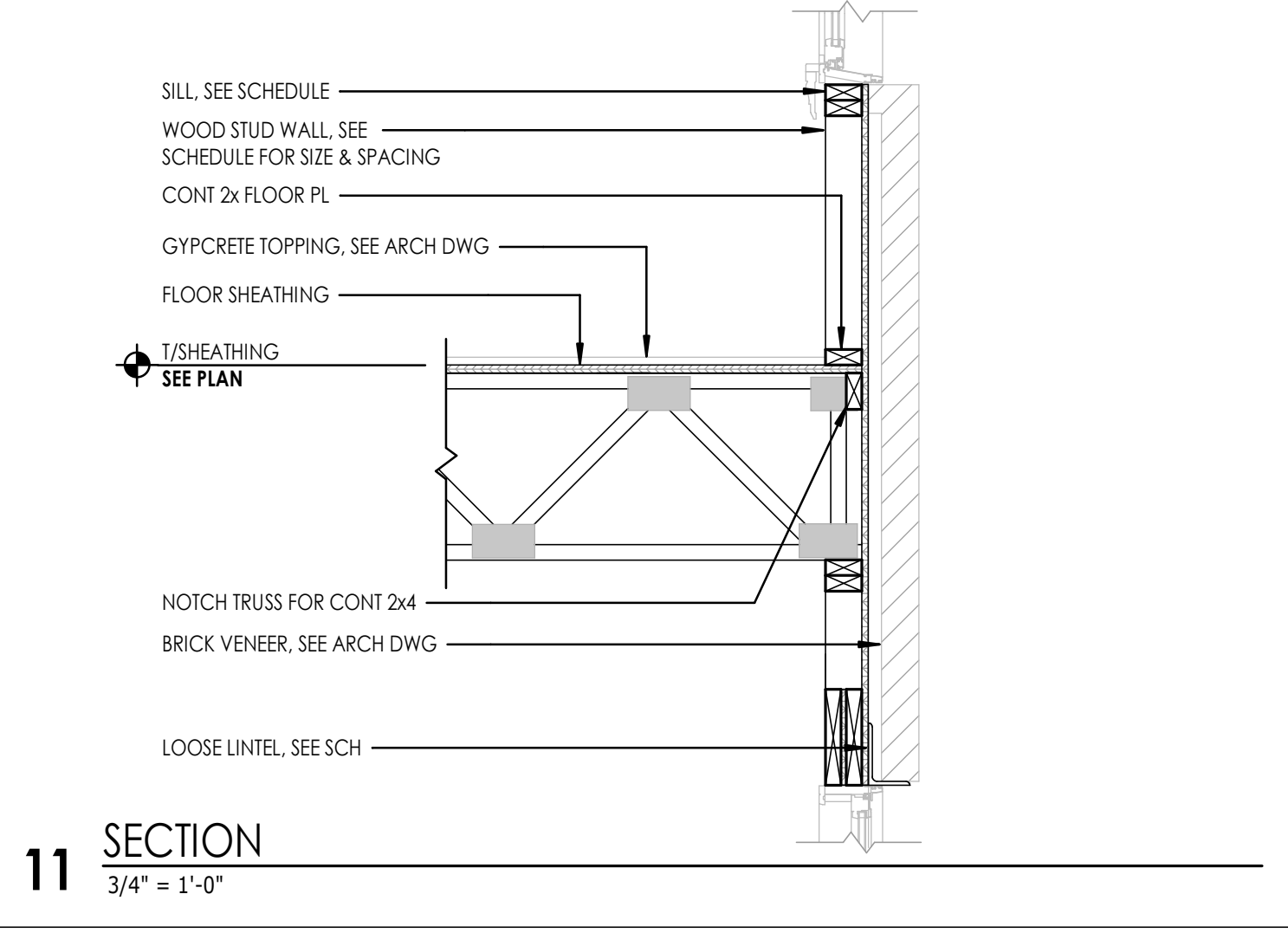
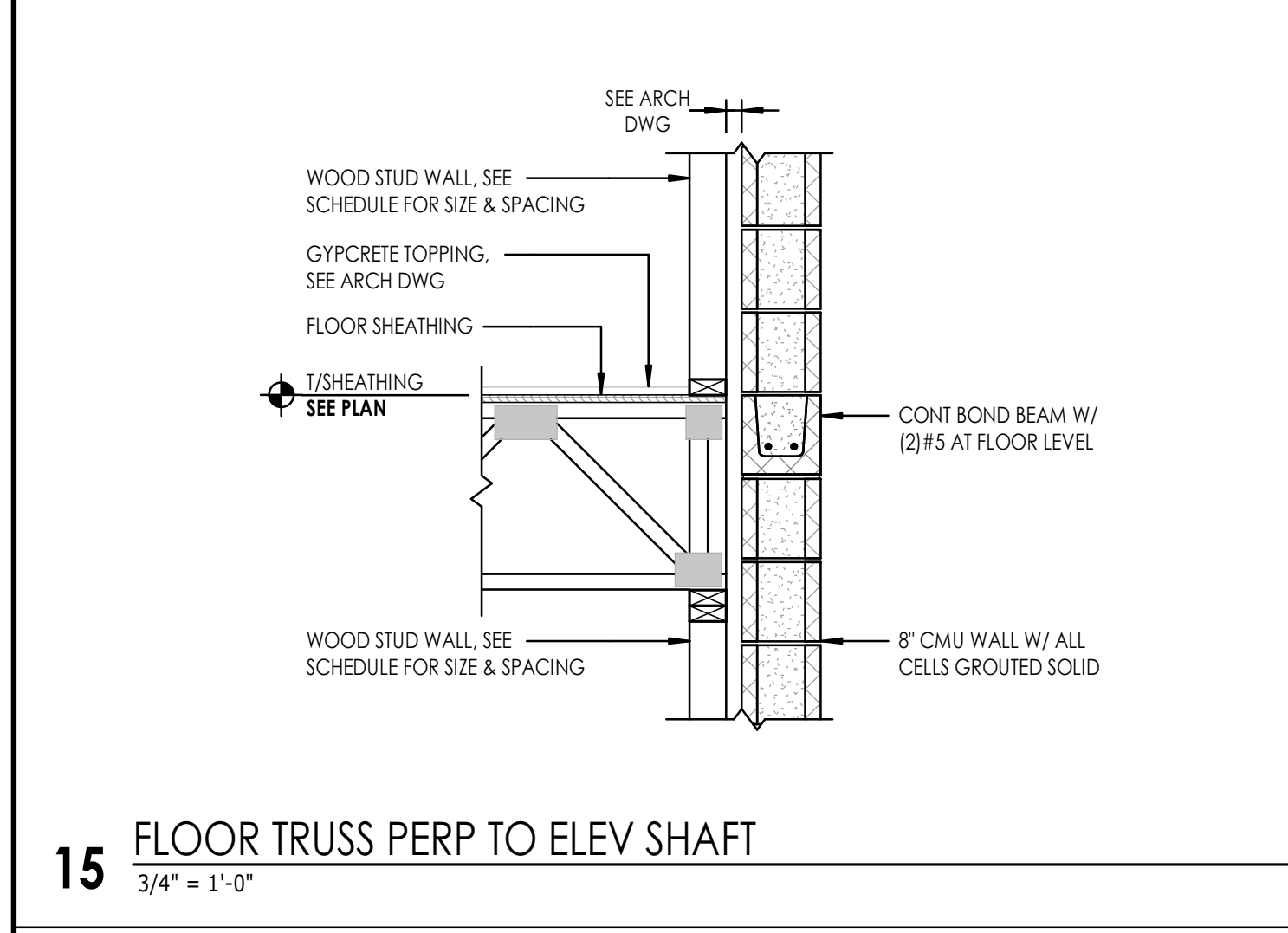
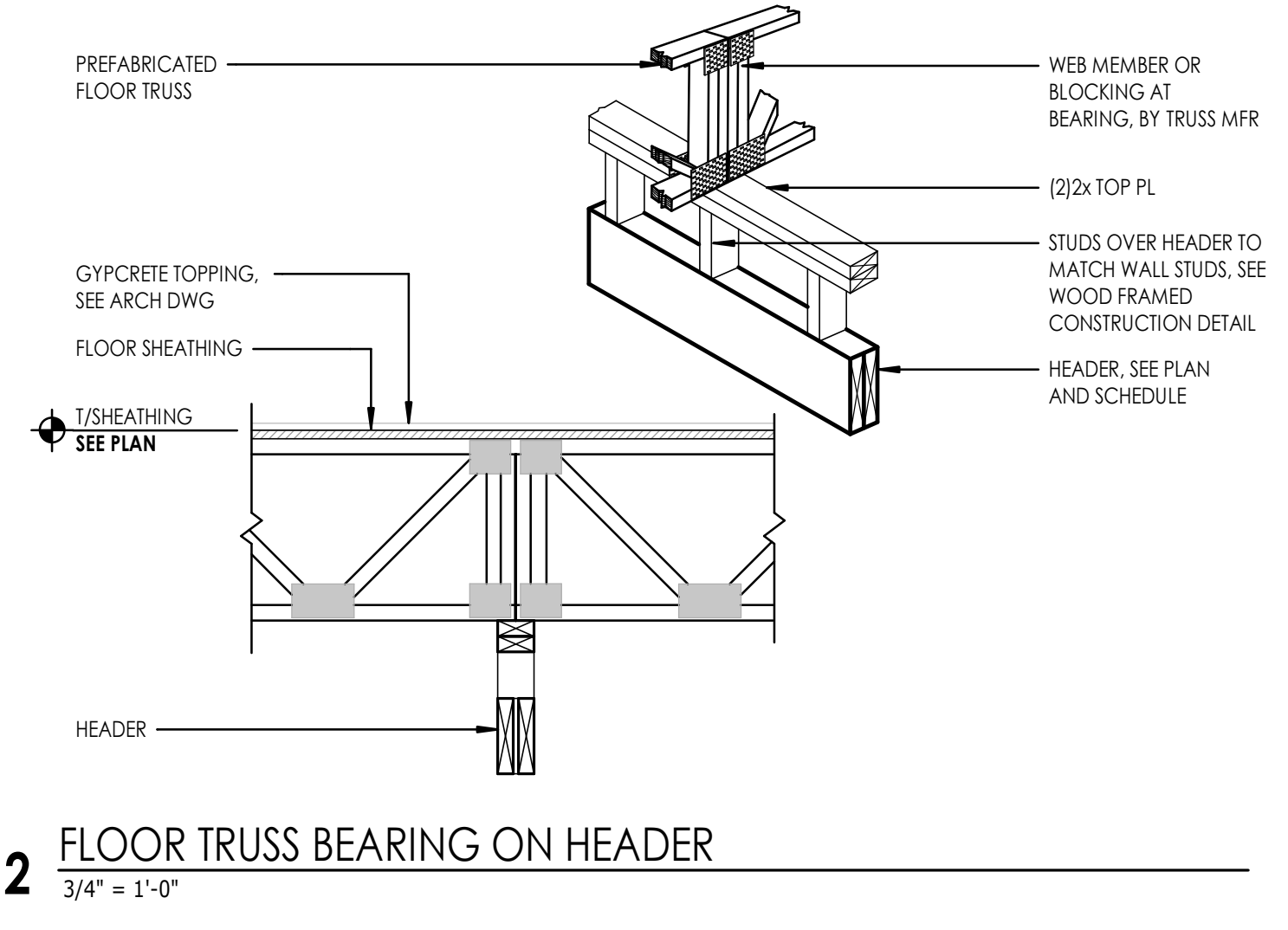
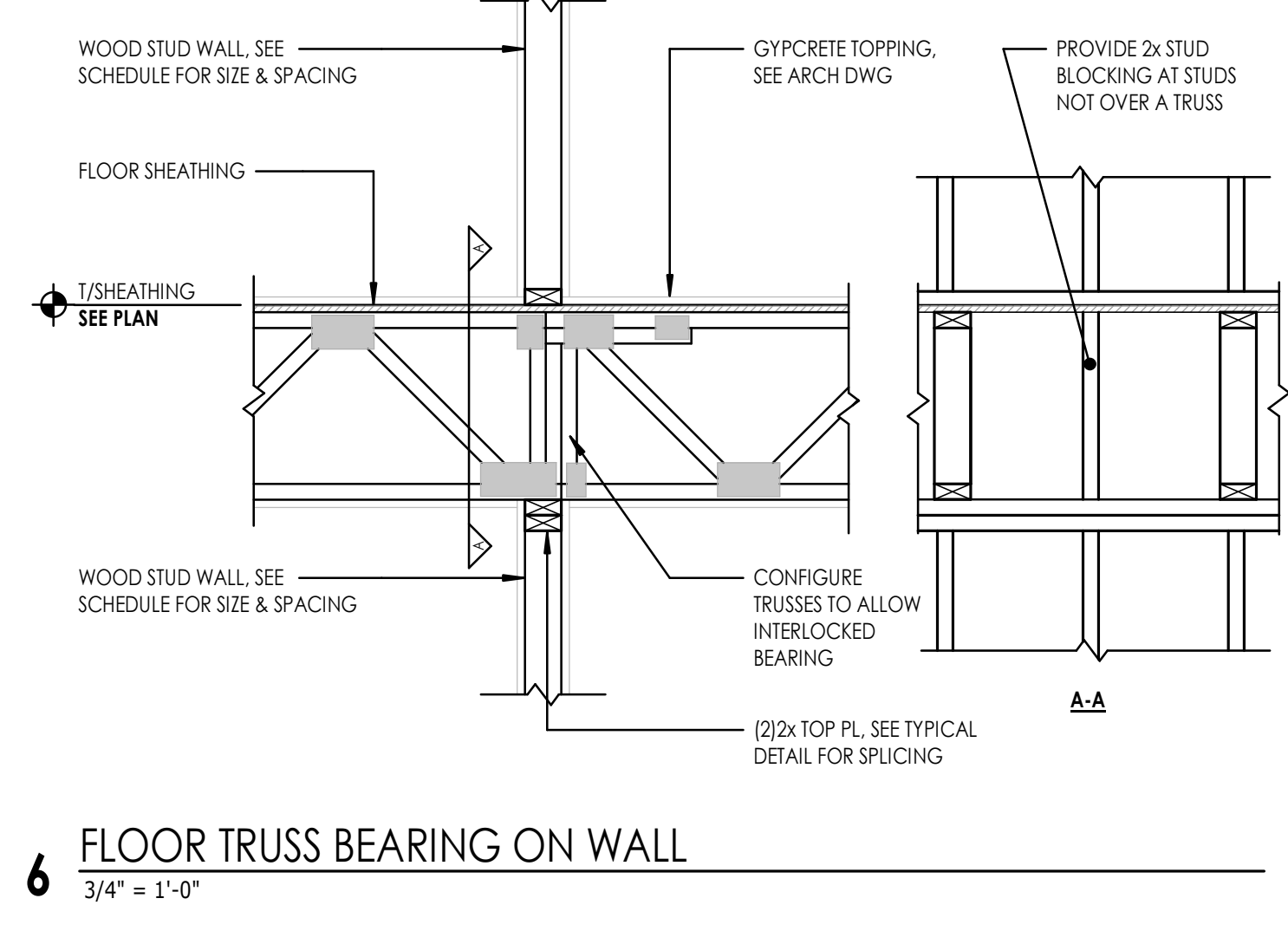
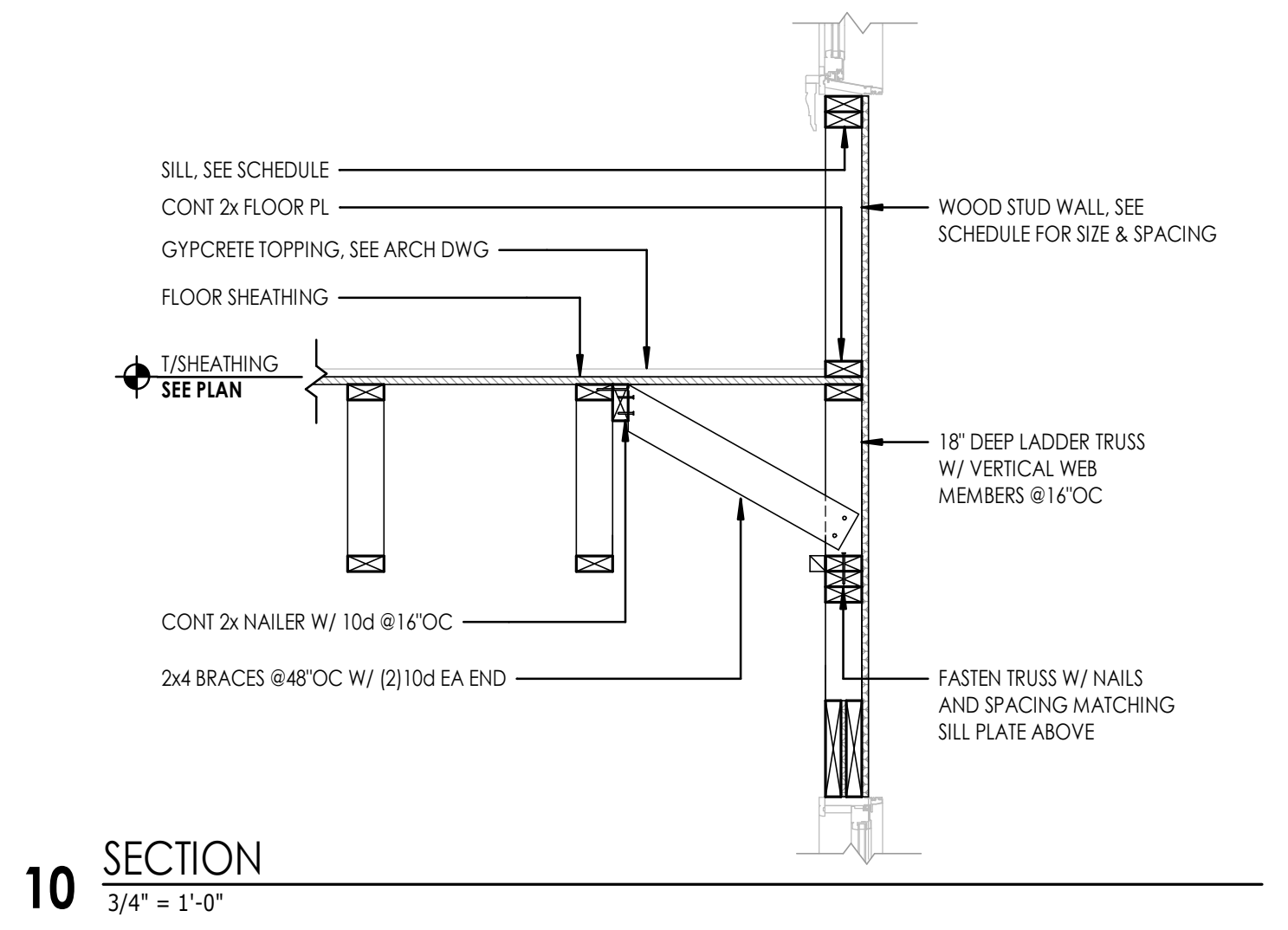
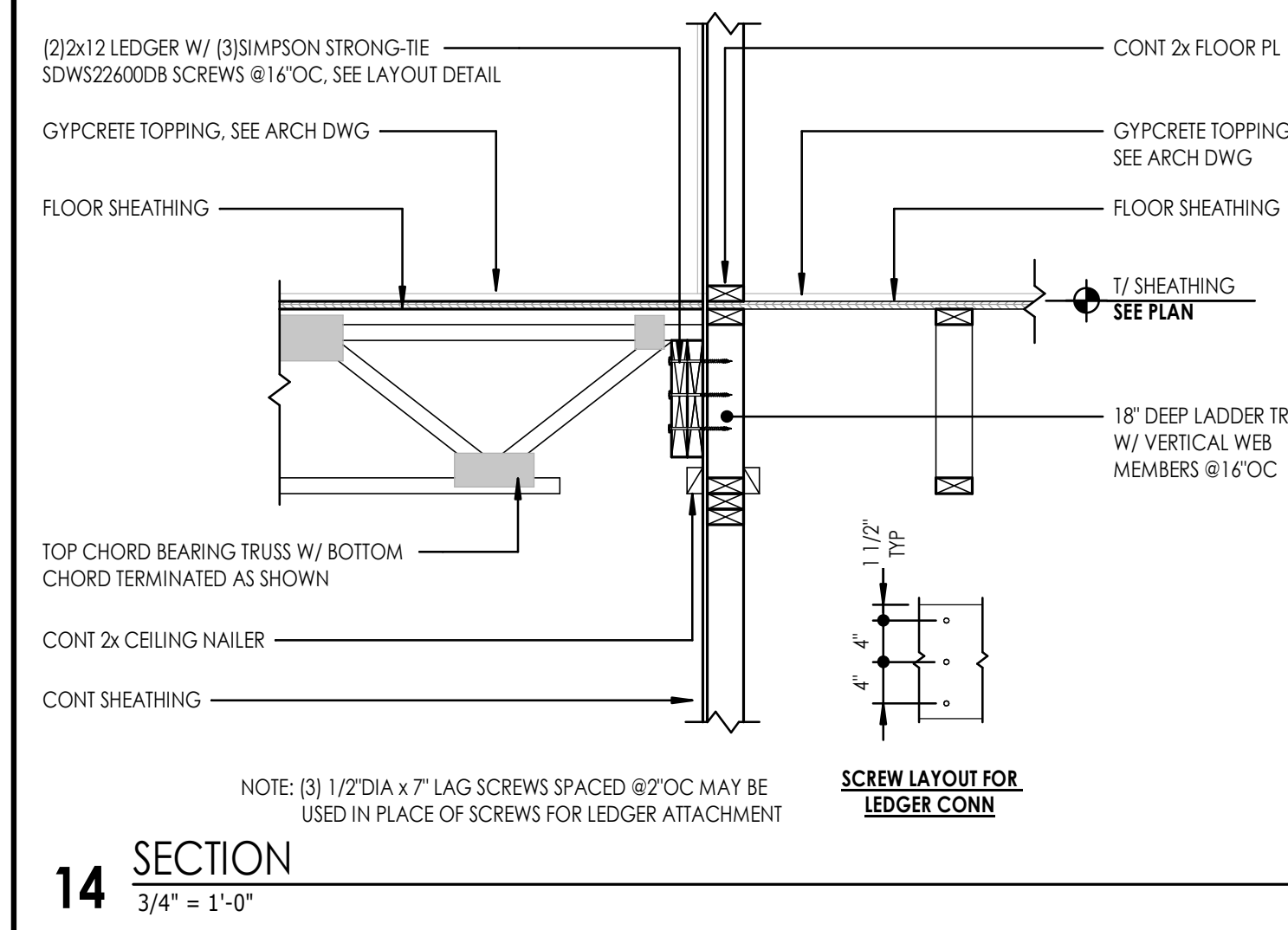
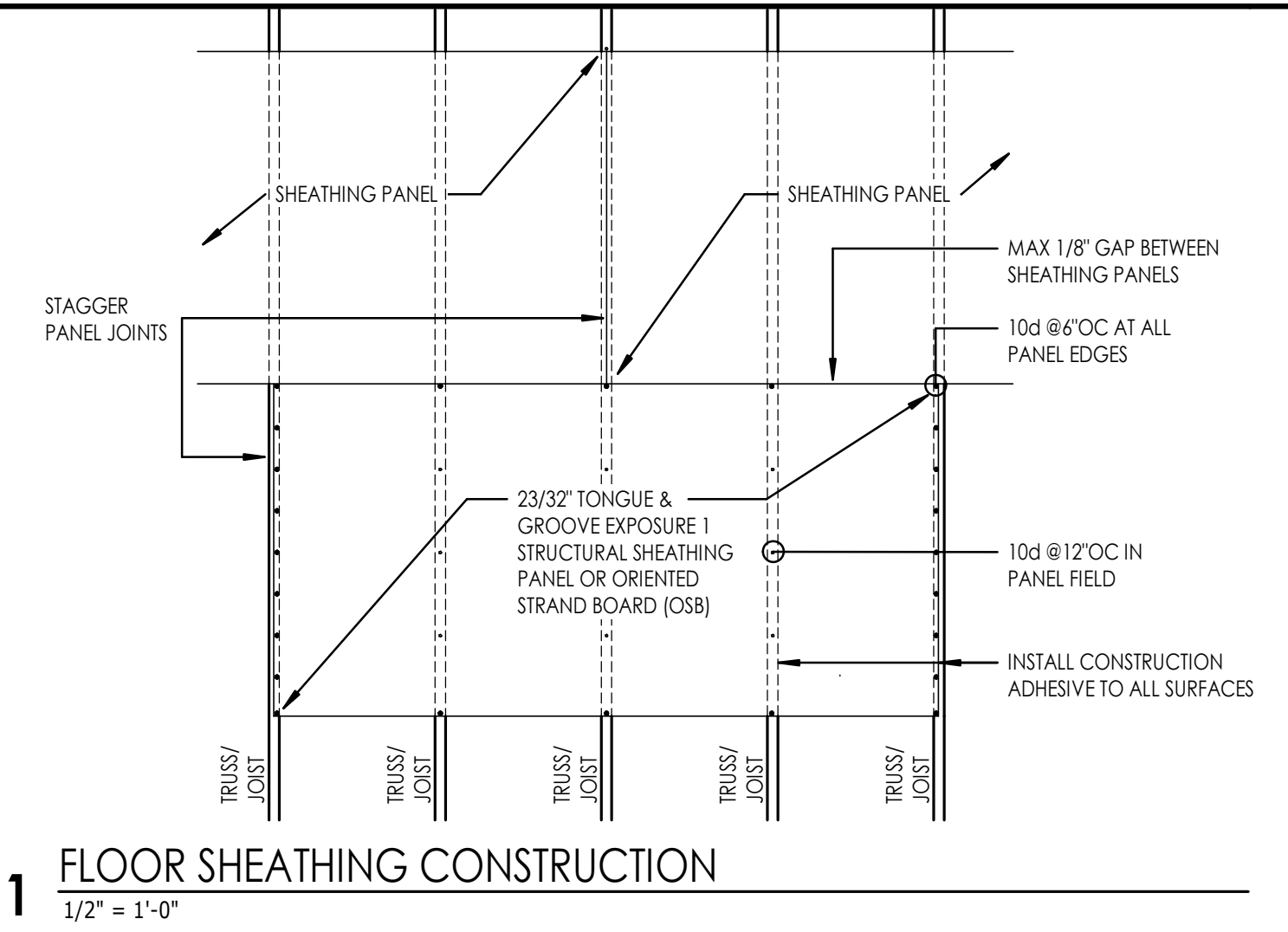
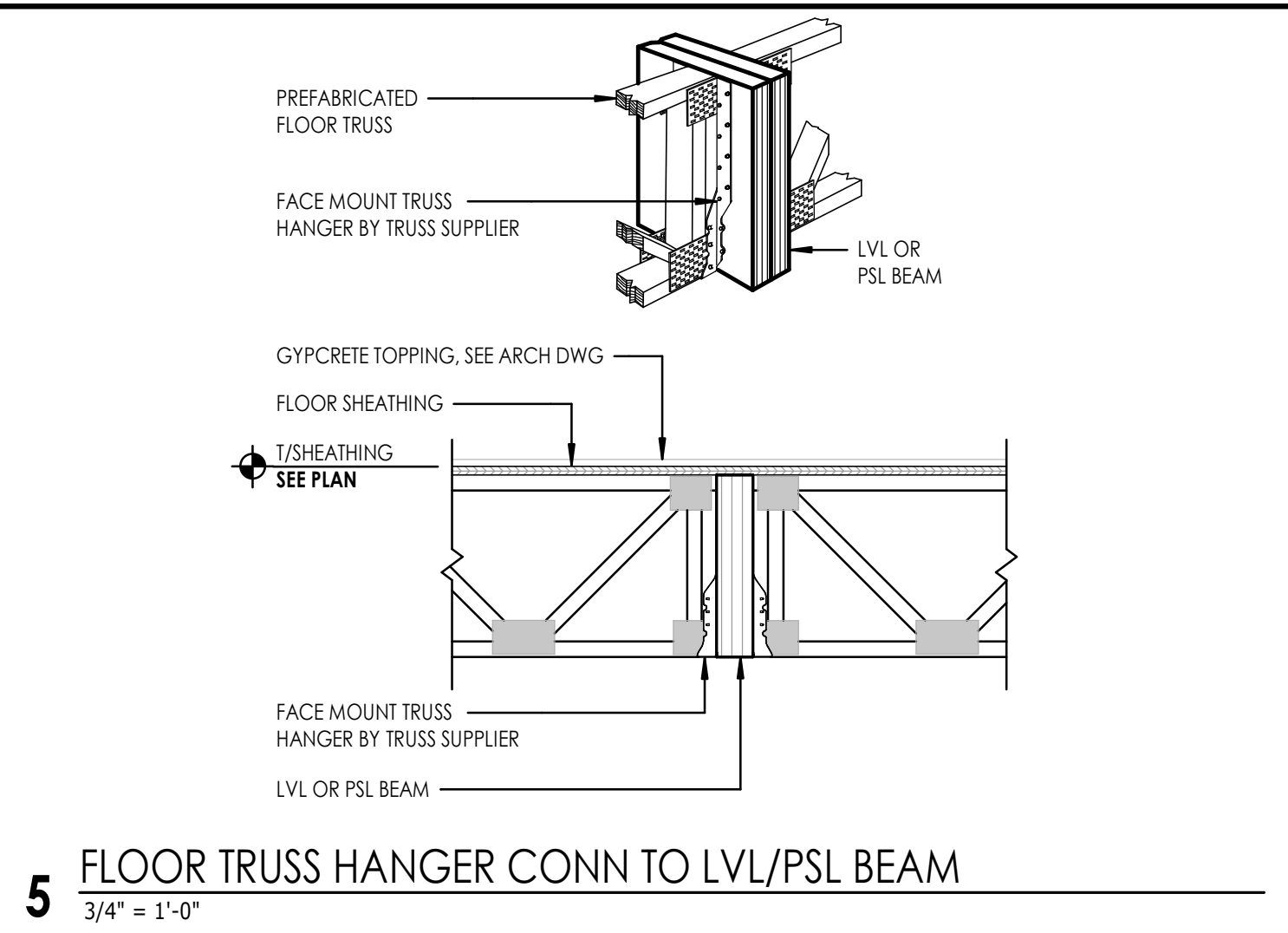
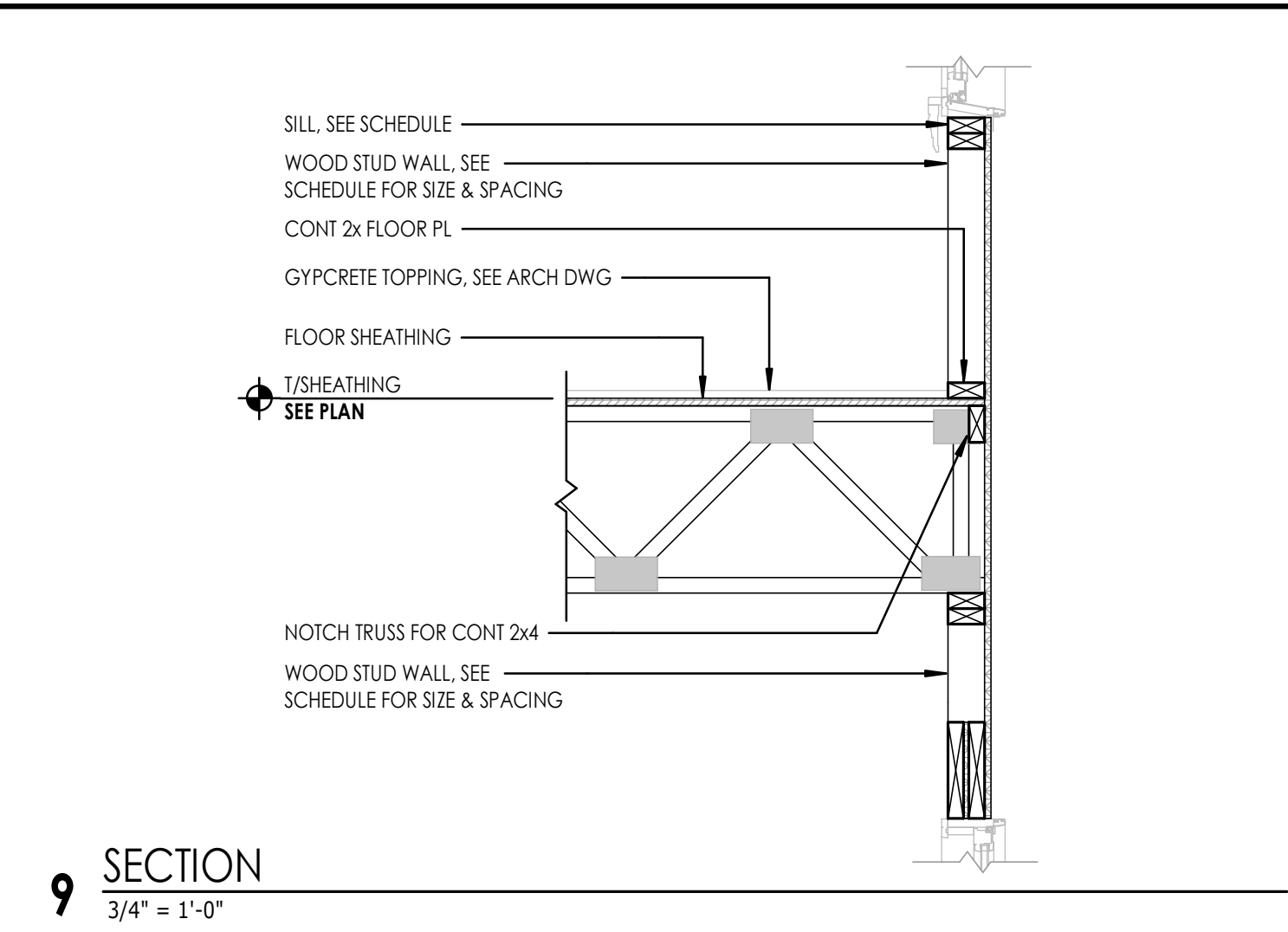
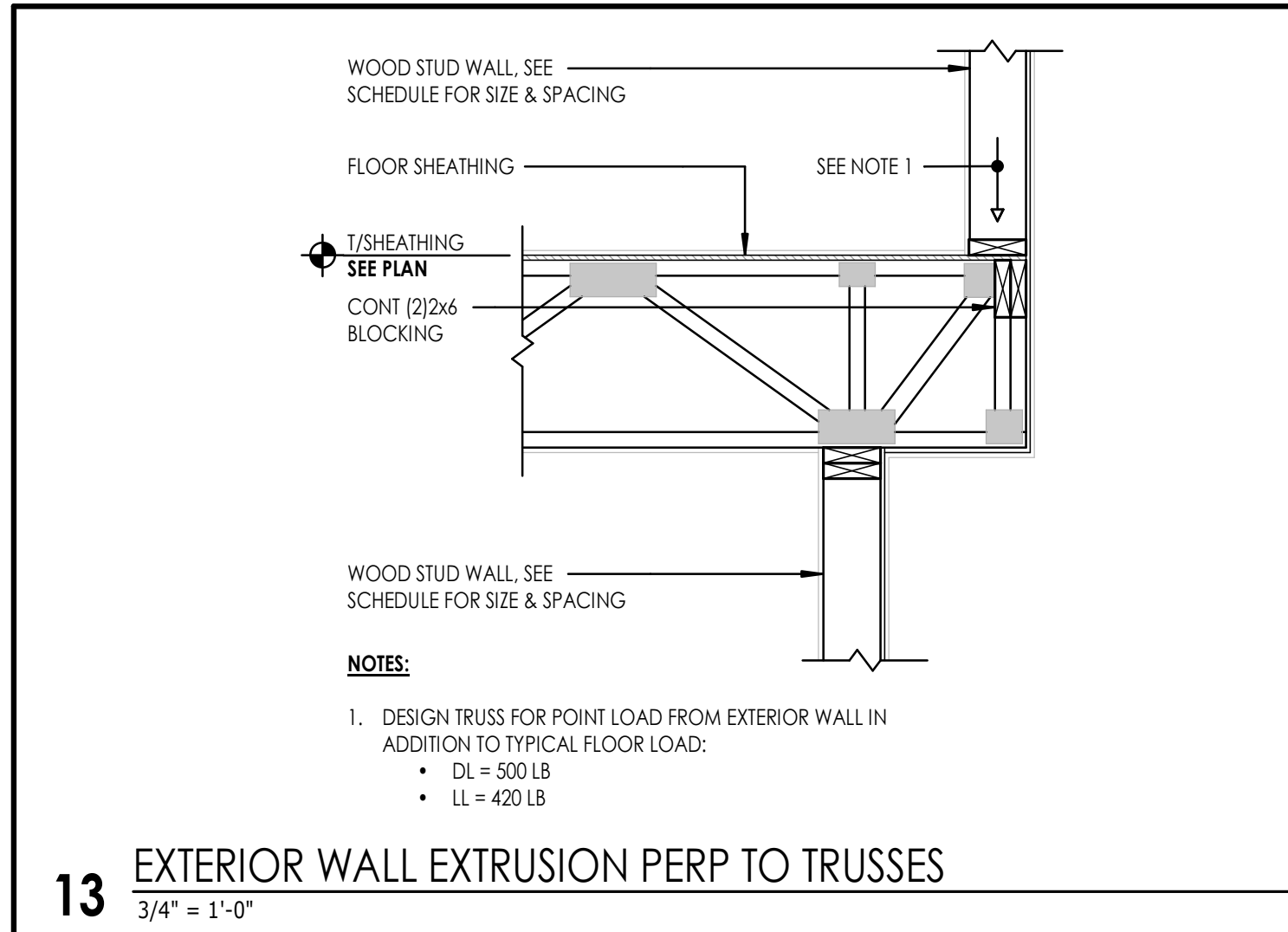


4 WALL INTERSECTION/CORNER FRAMING
3/4" = 1'-0"

MINIMUM FASTENER REQUIREMENTS FOR FRAMING									
CONNECTION	NUMBER OR SPACING OF FASTENERS REQUIRED PER CONNECTION								
	3 1/2 x0.162	3 x0.148	3 1/4 x0.131	3 x0.131	2 1/2 x0.131	3 1/4 x0.120	3 x0.120		
FLOOR FRAMING									
JOIST TO BAND JOIST	3	5	5	5	NA	6	6		
LEDGER STRIP	3	4	4	4	6	4	4		
JOIST TO SILL OR GIRDER	3	3	3	3	3	4	4		
BLOCKING BTWN JOIST OR RAFTER TO TOP PLATE	3	3	3	4	3	4	4		
BRIDGING TO JOIST	NA	NA	NA	NA	2	3	3		
RIM JOIST TO TOP PLATE	8"OC	6"OC	6"OC	6"OC	6"OC	6"OC	4"OC		
BUILT-UP GIRDERS AND BEAMS - SPACING ALONG EDGES - NUMBER AT ENDS AND SPLICES	24"OC 3	24"OC 3	24"OC 3	24"OC 3	16"OC 4	16"OC 3	16"OC 3		
CEILING AND ROOF FRAMING									
CEILING JOIST TO PLATE	3	4	5	5	5	5	5		
CEILING JOISTS, LAPS OVER PARTITIONS	3	4	4	4	6	4	4		
CEILING JOIST TO PARALLEL RAFTER	3	4	4	4	6	4	4		
COLLAR TIE TO RAFTER	3	3	4	4	5	4	4		
JACK RAFTER TO HIP, TOE NAILED	3	3	4	4	5	4	4		
JACK RAFTER TO HIP, FACE NAILED	2	3	3	3	3	4	4		
ROOF RAFTER TO PLATE	3	3	3	3	3	4	4		
ROOF RAFTER TO 2x RIDGE BEAM (DRIVEN THRU BEAM INTO END OF RIDGE)	2	3	3	3	NA	4	4		
ROOF RAFTER TO 2x RIDGE BEAM (TOE NAIL RAFTER TO BEAM)	2	3	3	3	3	4	4		
WALL FRAMING									
TOP OR SOLE PLATE TO STUD, END NAILED	2	3	3	3	5	4	4		
STUD TO TOP OR SOLE PLATE, TOE NAILED	3	4	4	4	4	4	4		
CAP/TOP PLATE LAPS AND INTERSECTIONS (EACH SIDE OF LAP)	2	3	3	3	4	3	3		
DIAGONAL BRACING	2	2	2	2	2	3	3		
SOLE PLATE TO JOIST OR BLOCKING AT BRACED PANELS (NUMBER PER 16" JOIST SPACE)	2	3	3	4	NA	4	4		
SOLE PLATE TO JOIST OR BLOCKING	16"OC	8"OC	8"OC	8"OC	6"OC	8"OC	8"OC		
DOUBLE TOP PLATE	16"OC	16"OC	12"OC	12"OC	8"OC	12"OC	12"OC		
DOUBLE STUDS	12"OC	12"OC	8"OC	8"OC	6"OC	8"OC	8"OC		
CORNER STUDS	24"OC	16"OC	16"OC	16"OC	8"OC	12"OC	12"OC		

- NOTES:
- NAIL LENGTHS SHOWN ARE A MINIMUM NOMINAL LENGTH (IN INCHES). NAIL SHANK DIAMETERS SHOWN ARE A MINIMUM NOMINAL DIAMETER (IN INCHES).
 - THIS FASTENING SCHEDULE APPLIES TO FRAMING MEMBERS HAVING AN ACTUAL THICKNESS OF 1 1/2" (NOMINAL 2x LUMBER).
 - FASTENINGS LISTED ABOVE MAY ALSO BE USED FOR OTHER CONNECTIONS THAT ARE NOT LISTED BUT THAT HAVE THE SAME CONFIGURATION AND THE SAME CODE REQUIREMENT FOR FASTENER QUANTITY/SPACING AND FASTENER SIZE (PENNYWEIGHT AND STYLE).
 - WHERE OTHER DRAWING OR SPECIFICATION REQUIREMENTS CONFLICT WITH THIS SCHEDULE, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

2 MINIMUM FASTENER REQUIREMENTS FOR FRAMING
3/4" = 1'-0"



new city

design group

1304 HILLSBOROUGH ST.
RALEIGH, NC 27605
919.831.1308
www.newcitydesign.com

09/06/2024

SCALENE DESIGN

FUNCTION • STRUCTURE • FORM

421 N HARRINGTON ST. FIRM LICENSE #P-1591
SUITE 400 SCALENE DESIGN RALEIGH, NC 27603
919.855.0295 PROJECT NO: SD-254001

NOT FOR CONSTRUCTION

SEAL

029410

ENGINEER

DAVID L FOLMAR JR.

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REVISION SCHEDULE

REV DATE	REV #	REVISION DESCRIPTION
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CARING HOUSE EXPANSION

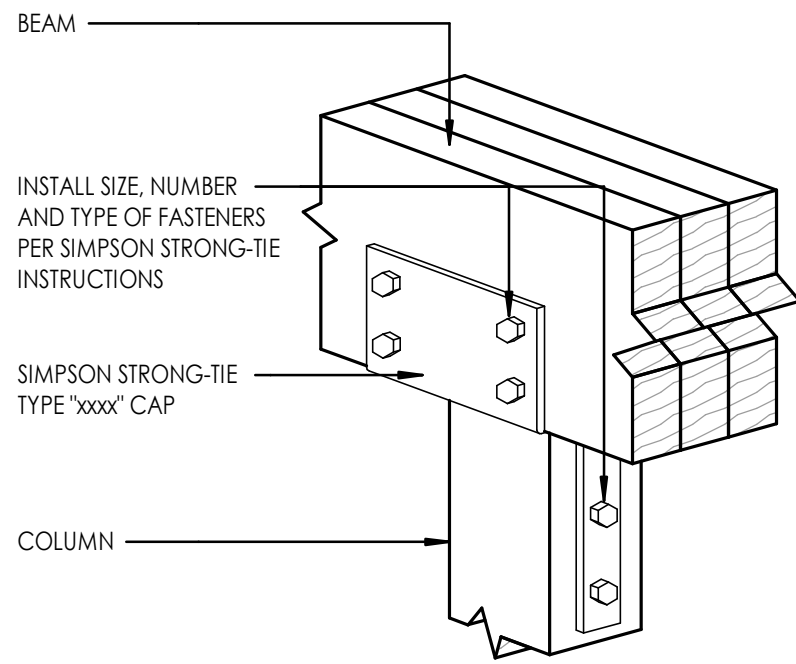
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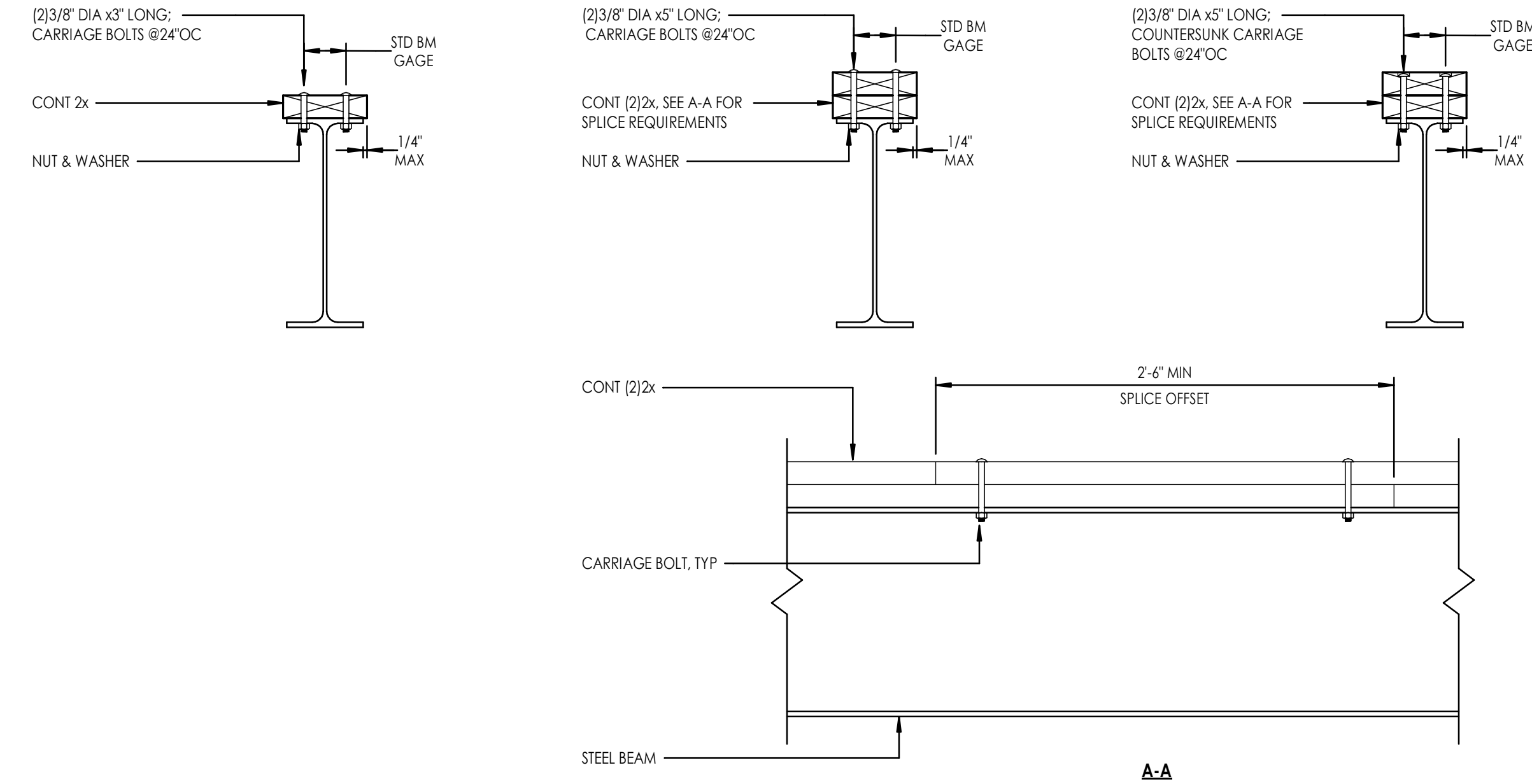
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SHEET TITLE
FLOOR FRAMING
SECTIONS AND
DETAILS

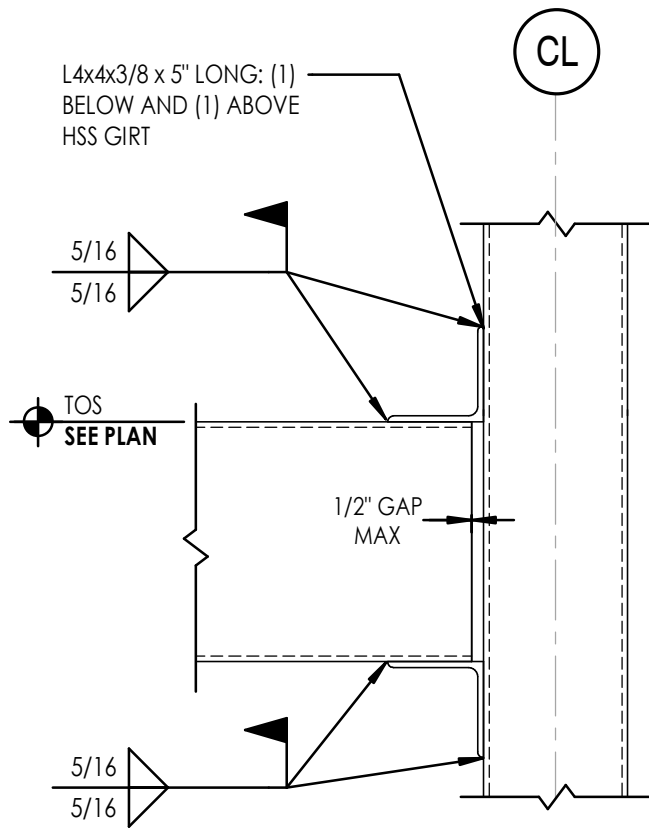
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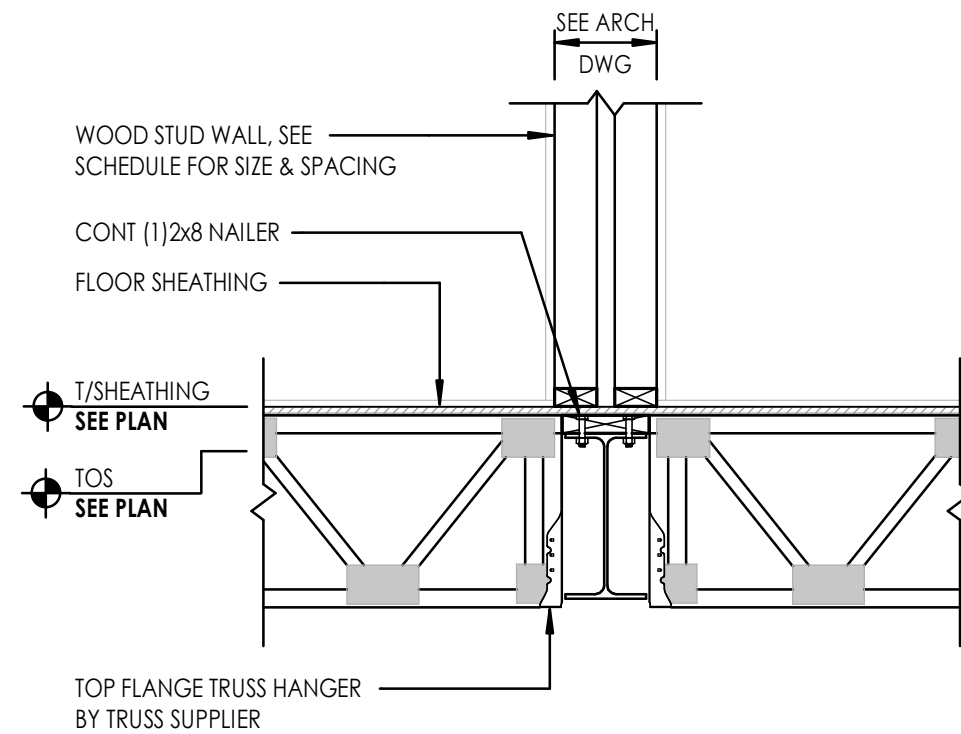
6 COLUMN CAP - HEAVY
3/4" = 1'-0"



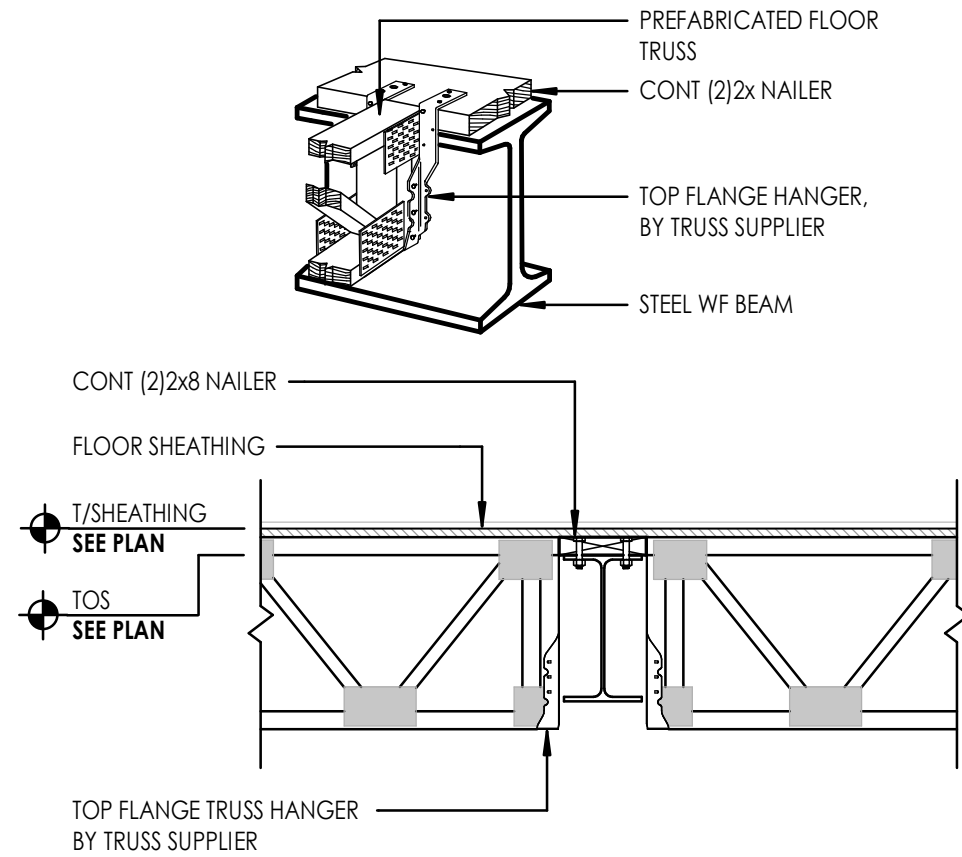
1 NAILER CONNECTION TO STEEL WF BEAM
1 1/2" = 1'-0"



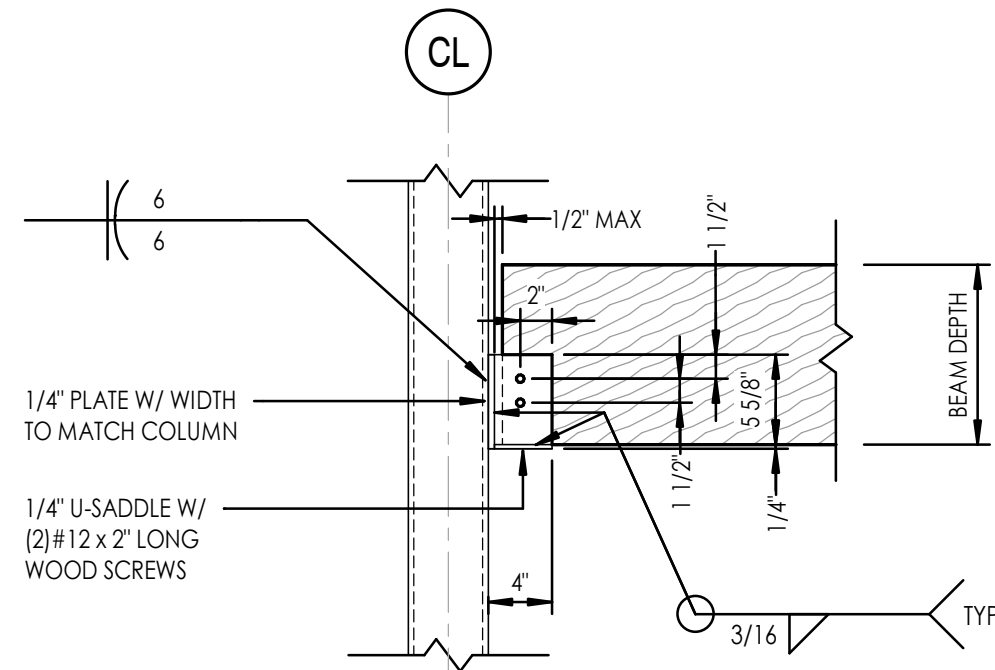
7 HSS GIRT TO GIRT SUPPORT POST CONNECTION
1 1/2" = 1'-0"



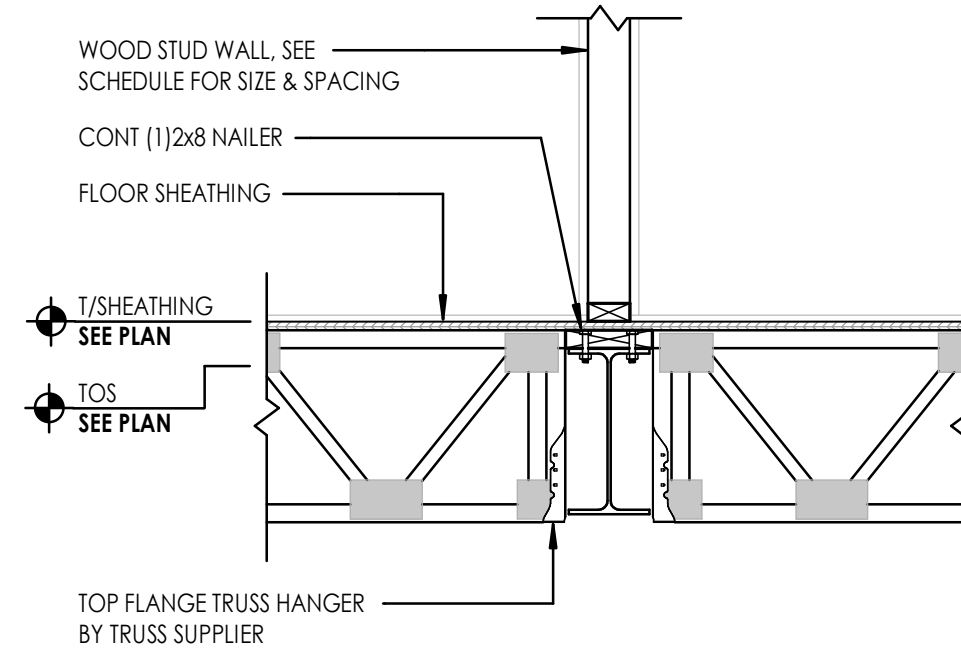
4 WF BEAM SUPPORTING TWO BEARING WALLS
3/4" = 1'-0"



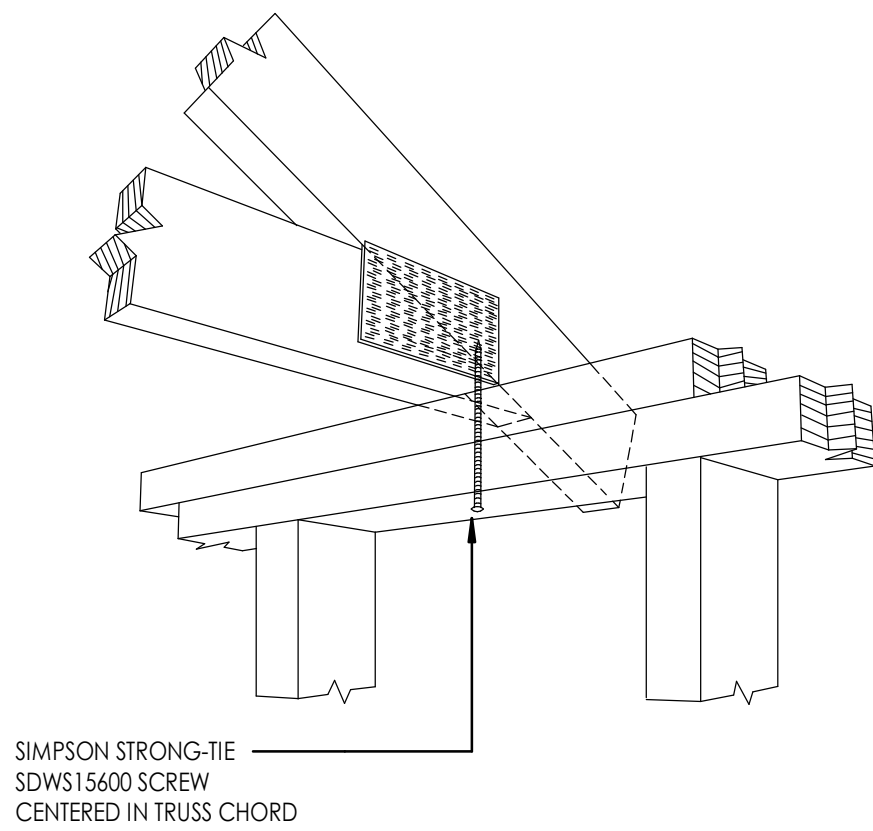
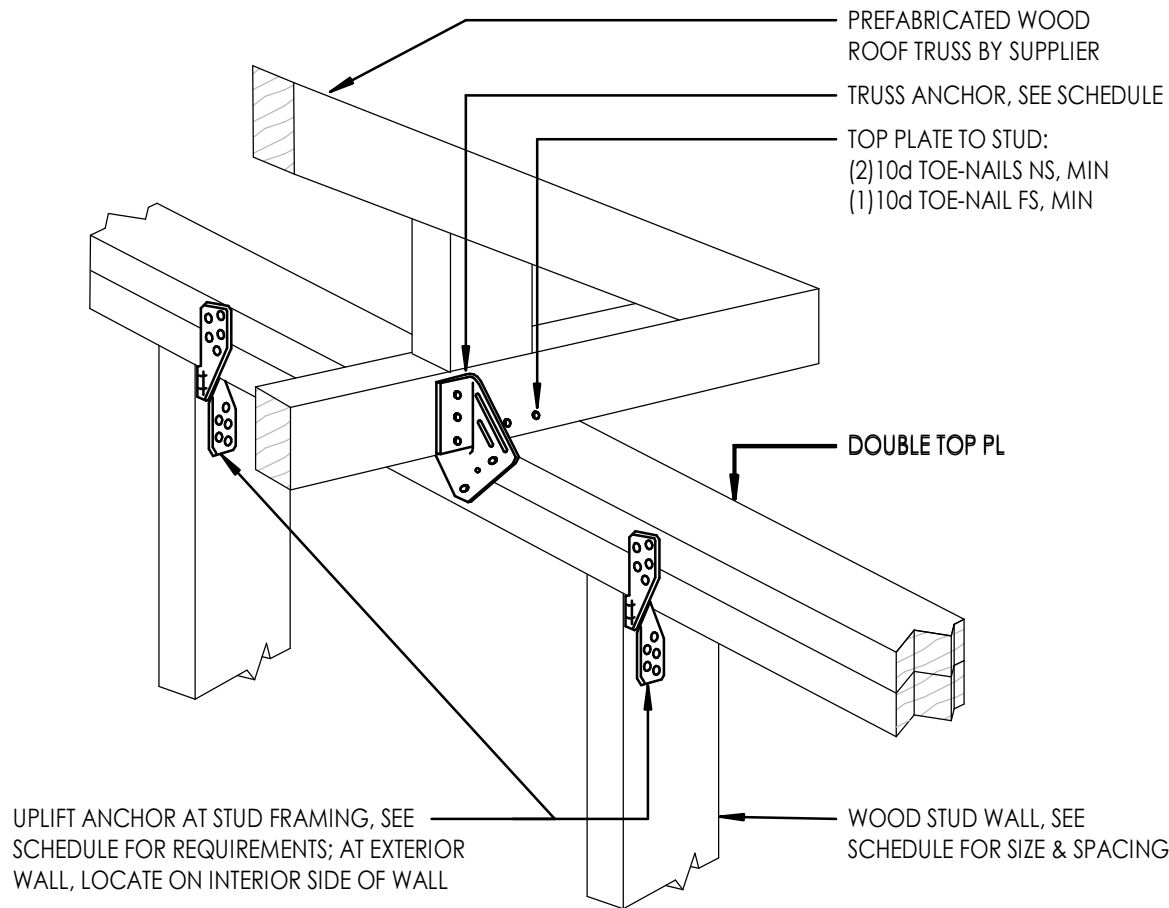
2 FLOOR TRUSS CONN TO STEEL WF BEAM
3/4" = 1'-0"



5 WOOD BEAM TO STEEL COLUMN CONNECTION
1" = 1'-0"



3 WF BEAM SUPPORTING BEARING WALL
3/4" = 1'-0"

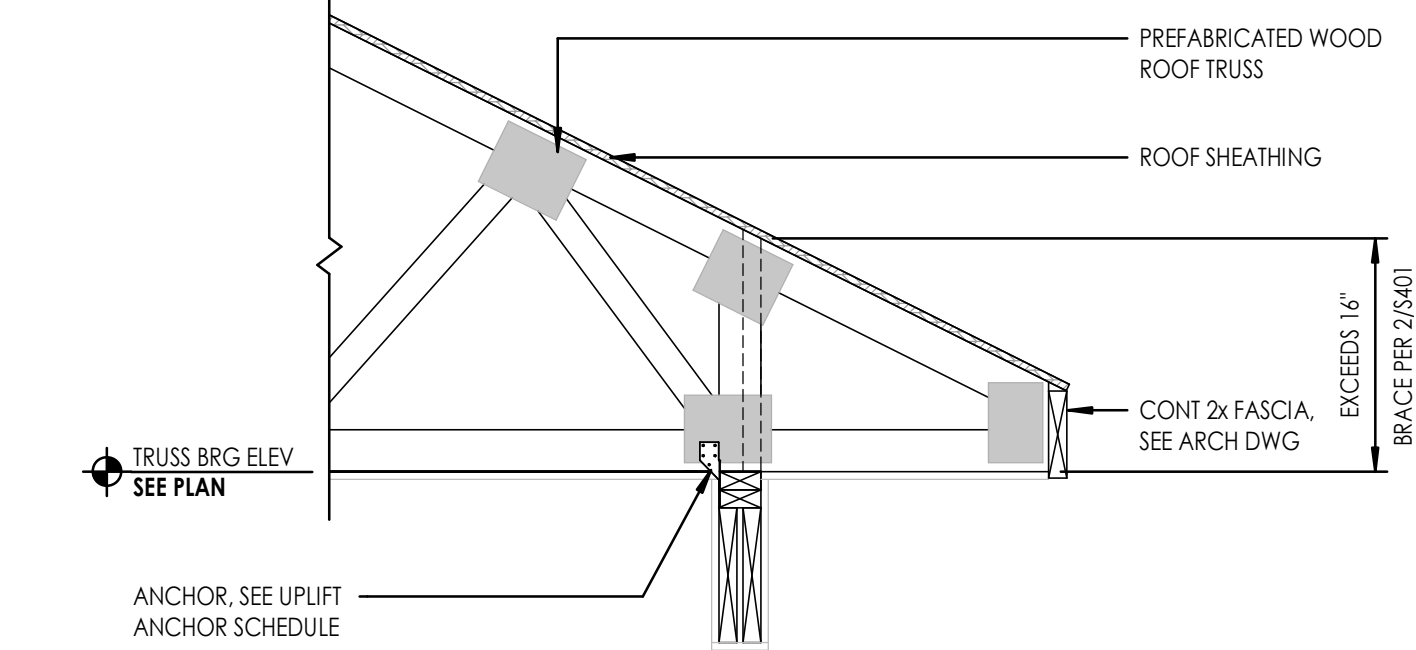


SECTION A-A

SINGLE TRUSS ANCHOR AND STUD UPLIFT ANCHOR REQUIREMENTS		
SPRUCE PINE FIR FRAMING, TRUSS SPACING @24"OC		
TRUSS UPLIFT REACTION	TRUSS ANCHOR TYPE	STUD ANCHOR TYPE
LESS THAN 200 LBS	NONE	NONE
201 LBS TO 285 LBS	H2.5A OR SDWC15600 DETAIL A-A	NONE
286 LBS TO 680 LBS	H2.5A	H2.5A
681 LBS TO 930 LBS	H10A	H6
931 LBS TO 1230 LBS	(2)H2.5A (SEE NOTE 3)	MTS12
1231 LBS TO 1700 LBS	(2)MTS12 (SEE NOTE 3)	HTS16
GREATER THAN 2385 LBS	CONTACT ENGINEER	

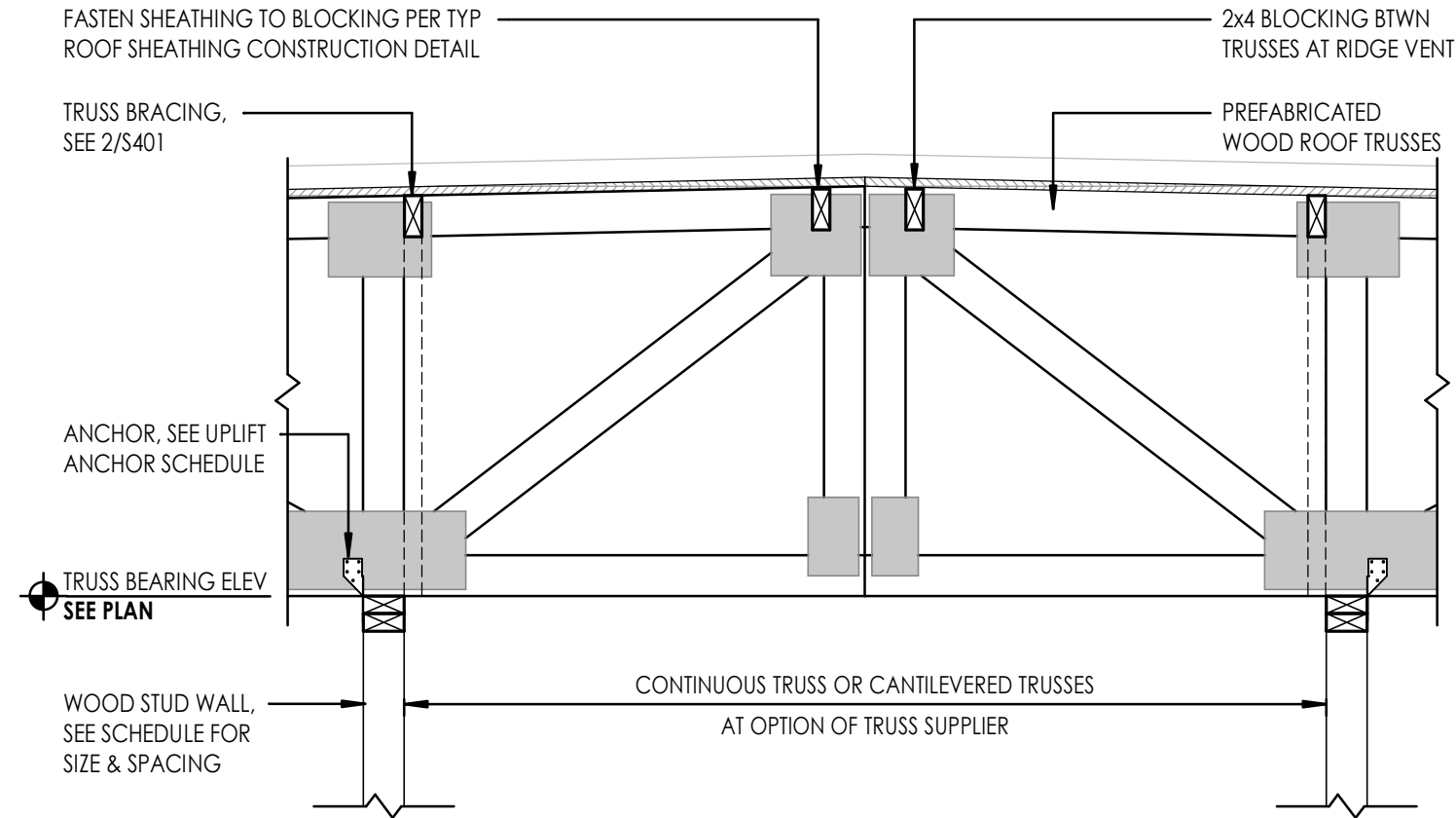
MULTI PLY TRUSS ANCHOR REQUIREMENTS		
TRUSS ALIGNED W/ COLUMN BELOW		
TRUSS UPLIFT REACTION	MIN # OF PILES	TRUSS ANCHOR TYPE
LESS THAN 200 LBS	-	NONE
201 LBS TO 715 LBS	2	H72
716 LBS TO 1750 LBS	2	LGT2
716 LBS TO 2505 LBS	3	LGT3-SDS2.5
1751 LBS TO 2720 LBS	2 OR 3	MGT W/ HDU4
GREATER THAN 2720 LBS	-	CONTACT ENGINEER

- NOTES:**
1. MAXIMUM WALL STUD SPACING 16"OC.
 2. CONTRACTOR TO SELECT TRUSS ANCHOR BASED ON APPROVED TRUSS SHOP DRAWING WITH TRUSS REACTIONS.
 3. TWO ANCHORS MAY BE USED (PER SIMPSON STRONG-TIE RECOMMENDED CONSTRUCTION DETAILS) TO ACHIEVE TWICE THE CAPACITY.
 4. DETAIL APPLIES TO BOTH INTERIOR AND EXTERIOR BEARING WALLS.



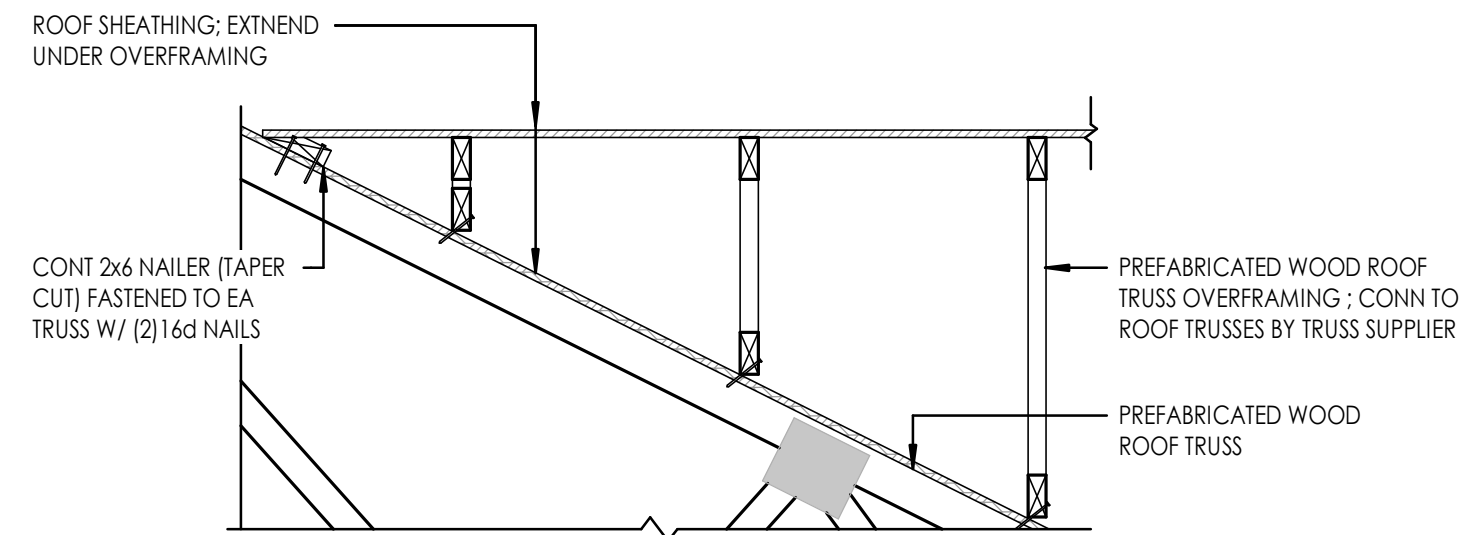
4 ROOF TRUSS BEARING AT BALCONY HEADER

3/4" = 1'-0"



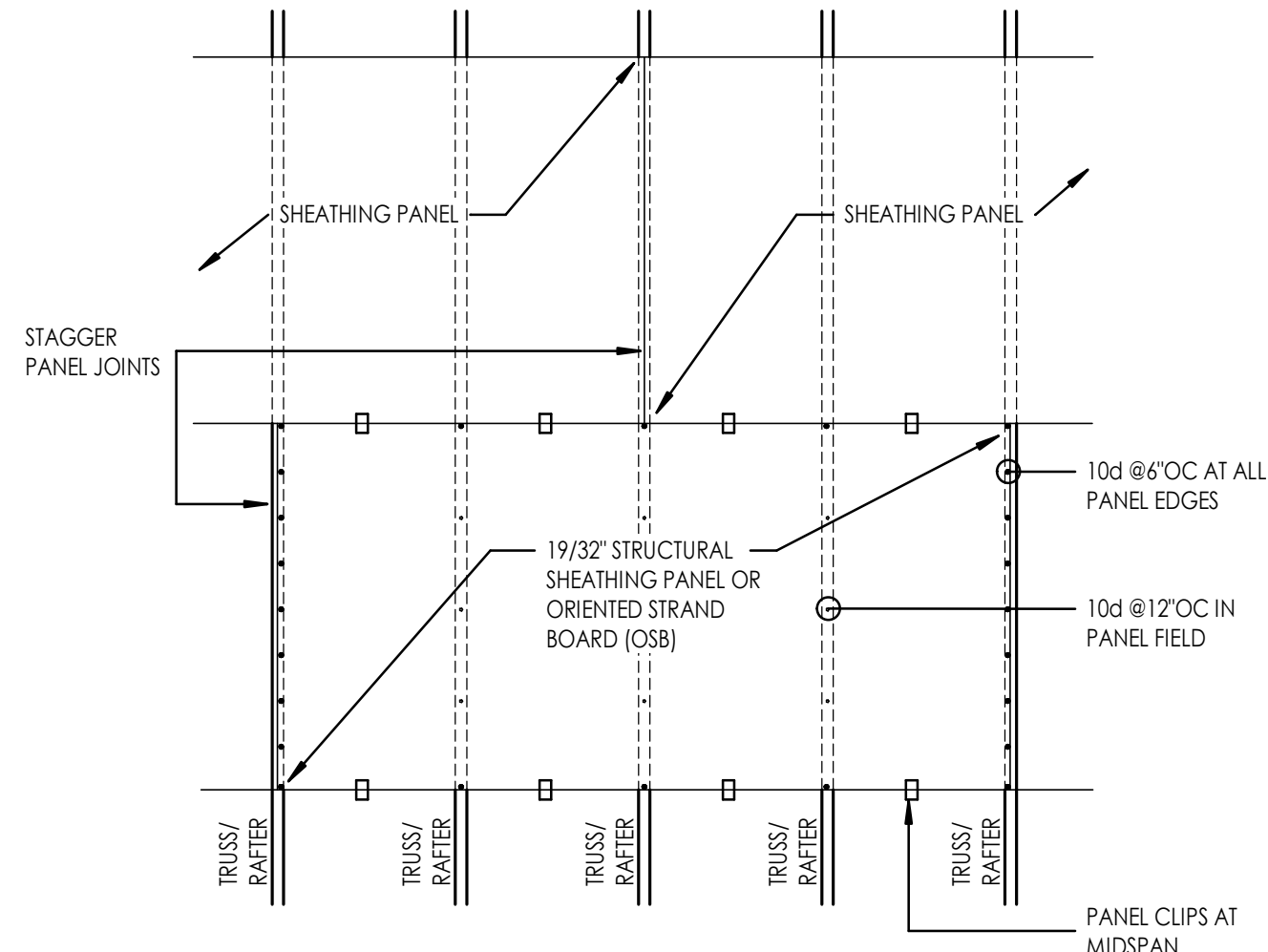
5 ROOF TRUSSES ON CORRIDOR WALLS

3/4" = 1'-0"



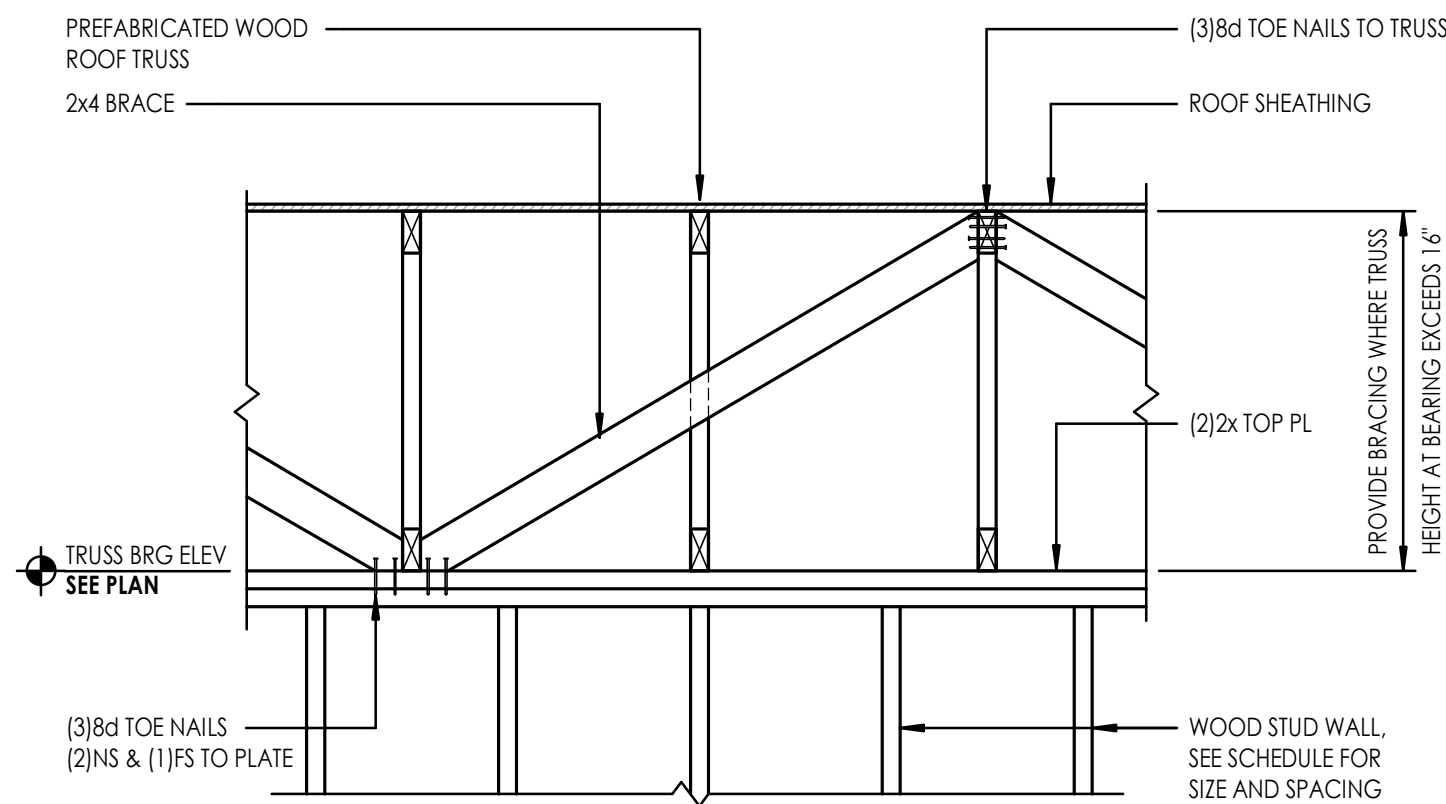
6 ROOF TRUSS OVERFRAMING

3/4" = 1'-0"



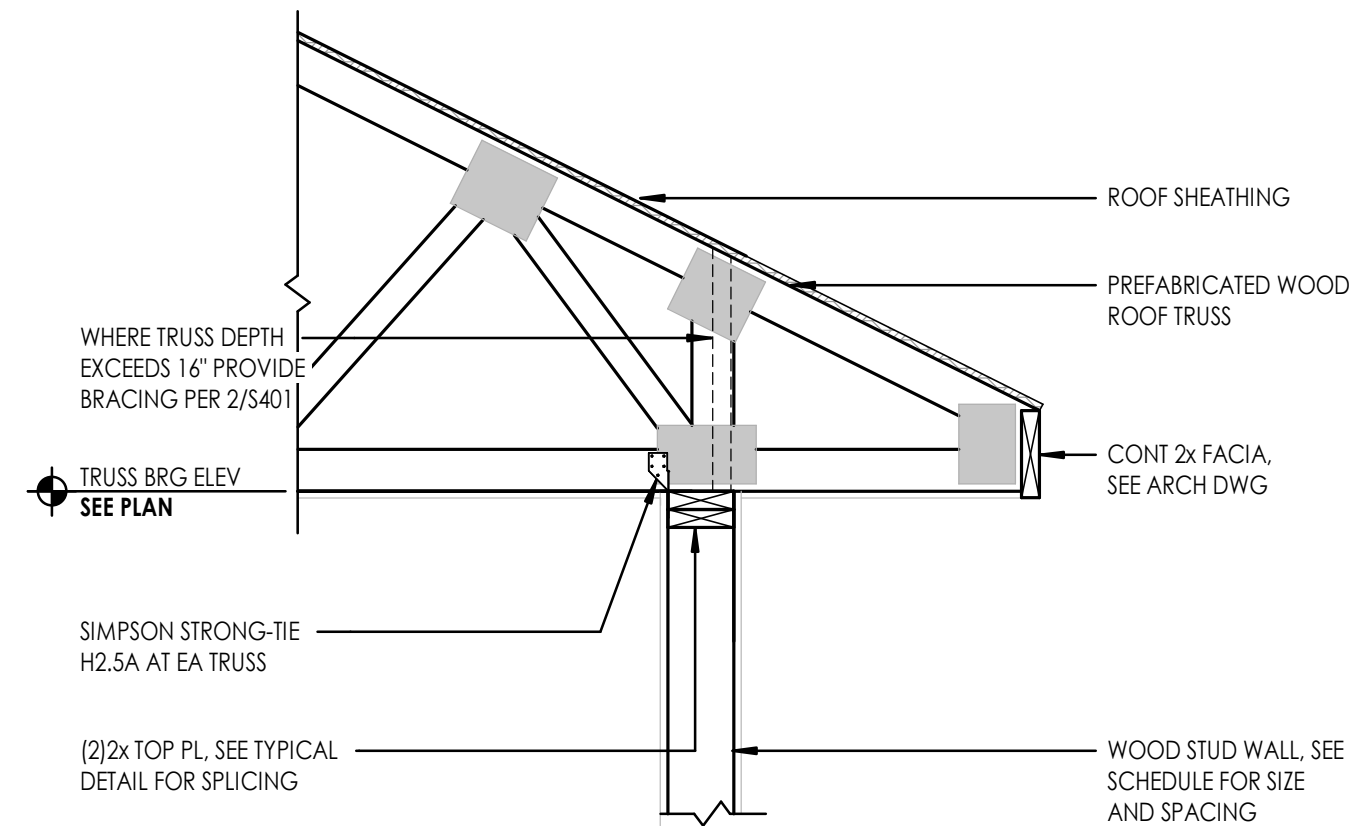
1 ROOF SHEATHING CONSTRUCTION

1/2" = 1'-0"



2 BRACING AT ROOF TRUSSES

3/4" = 1'-0"



3 SECTION

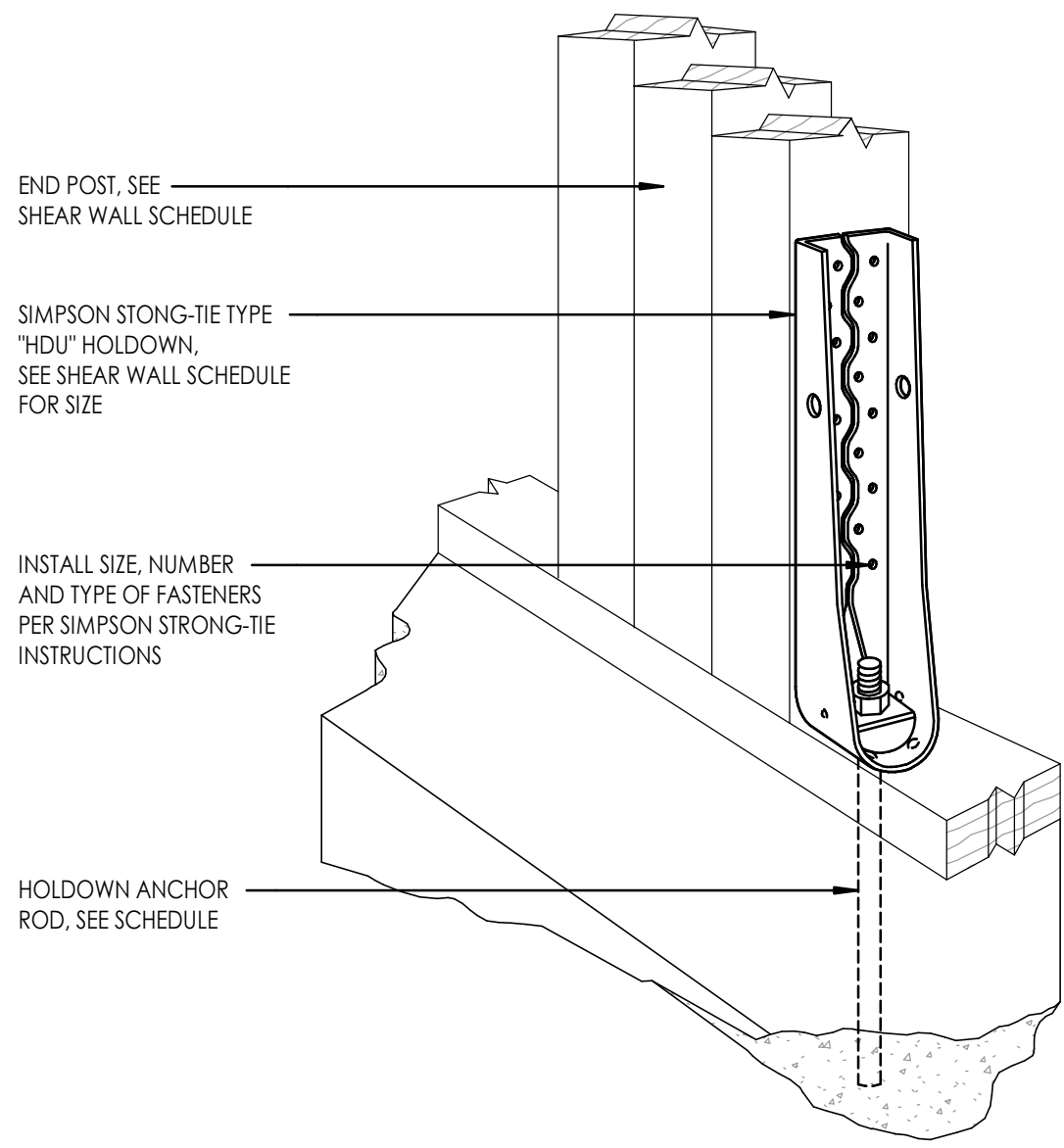
3/4" = 1'-0"

7 ROOF TRUSS UPLIFT ANCHOR SCHEDULE

3/4" = 1'-0"

REV DATE	REV #	REVISION DESCRIPTION
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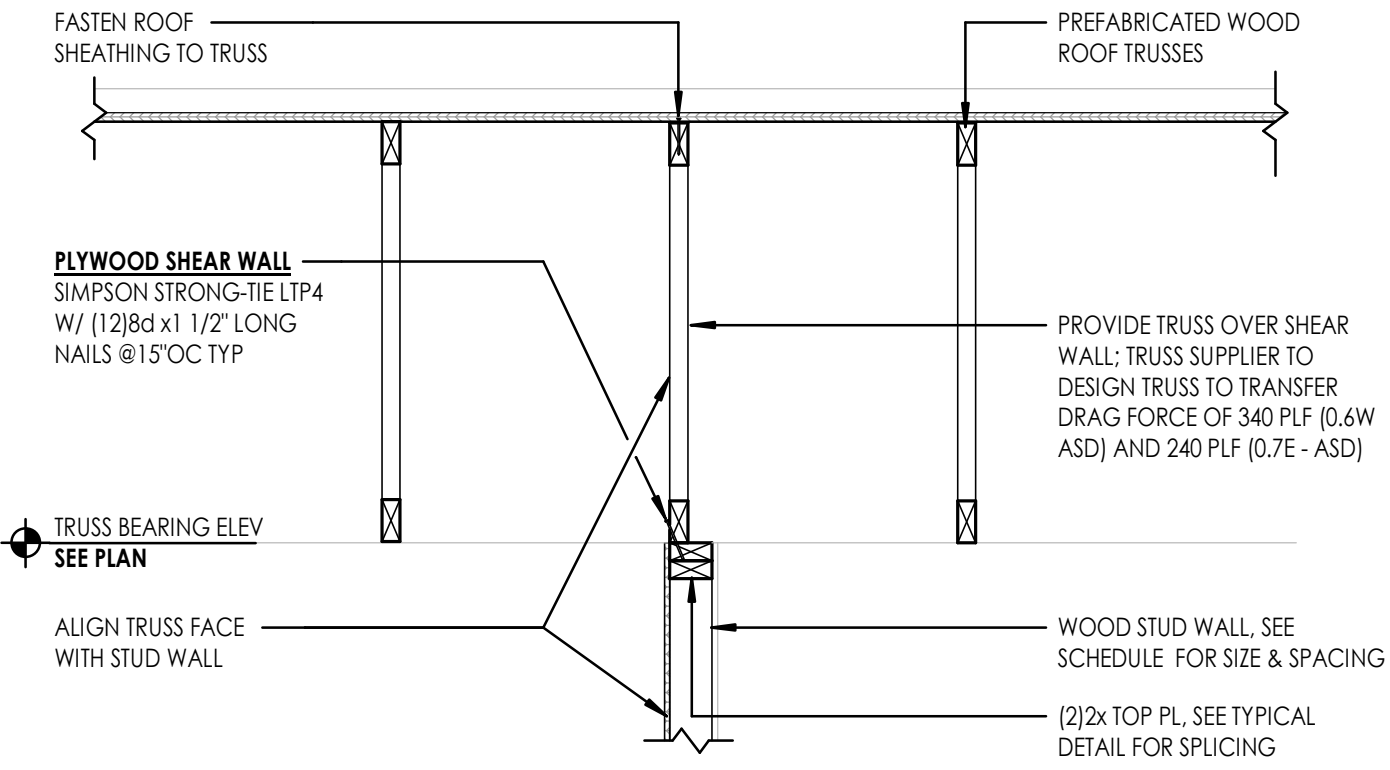


ANCHOR ROD SCHEDULE			
HOLDOWN	DIAMETER	MINIMUM EMBEDMENT	
		EDGE	INTERIOR
HDU2	5/8"	9 1/2"	5"
HDU4	5/8"	12"	5"
HDU5	5/8"	12"	5"
HDU8	7/8"	15 1/2"	7 3/4"
HDU11	1"	15"(*)	9"
HDU14	1"	NA	9"

- NOTES:**
1. SET ANCHOR RODS IN SIMPSON STRONG-TIE SET-HP EPOXY ADHESIVE.
 2. EDGE DISTANCE BASED ON DIMENSION FROM CENTER OF ANCHOR TO EDGE OF CONCRETE OF 1 3/4" AND 5" AT CORNER.

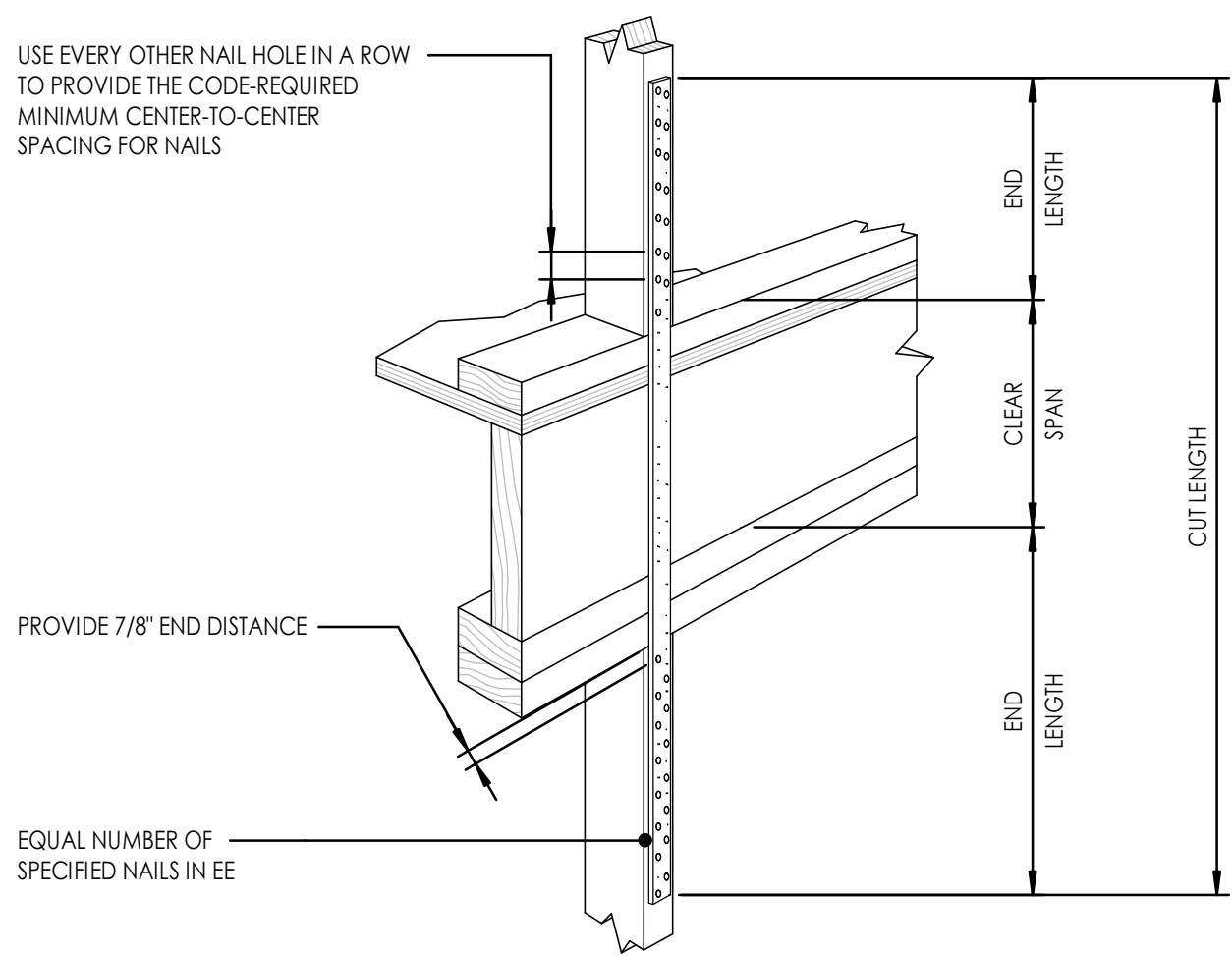
5 SIMPSON STRONG-TIE - "HDU" HOLDOWN AT FOUNDATION

3/4" = 1'-0"



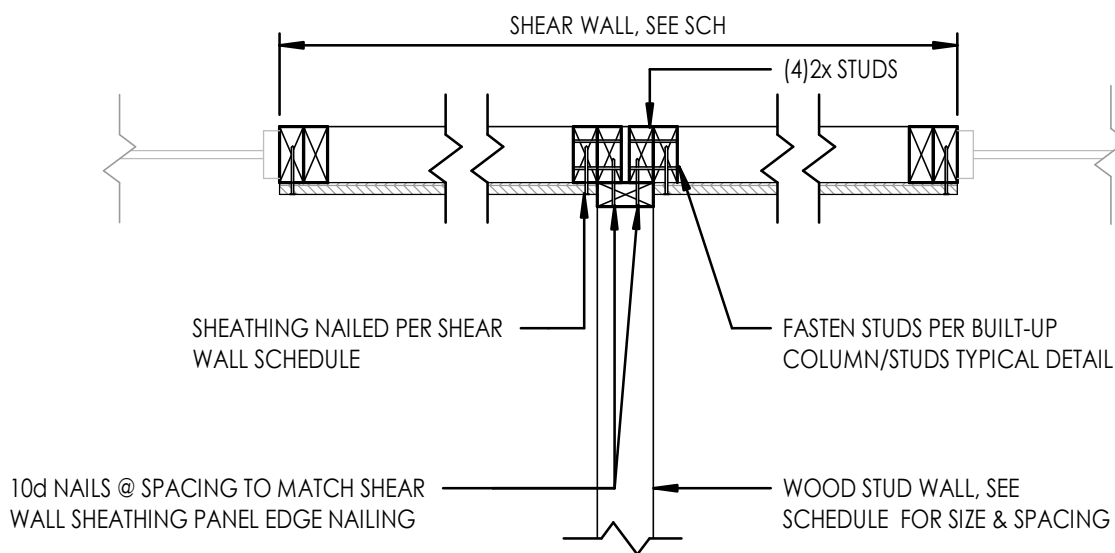
8 ROOF TRUSS AT PLYWOOD SHEAR WALL

3/4" = 1'-0"



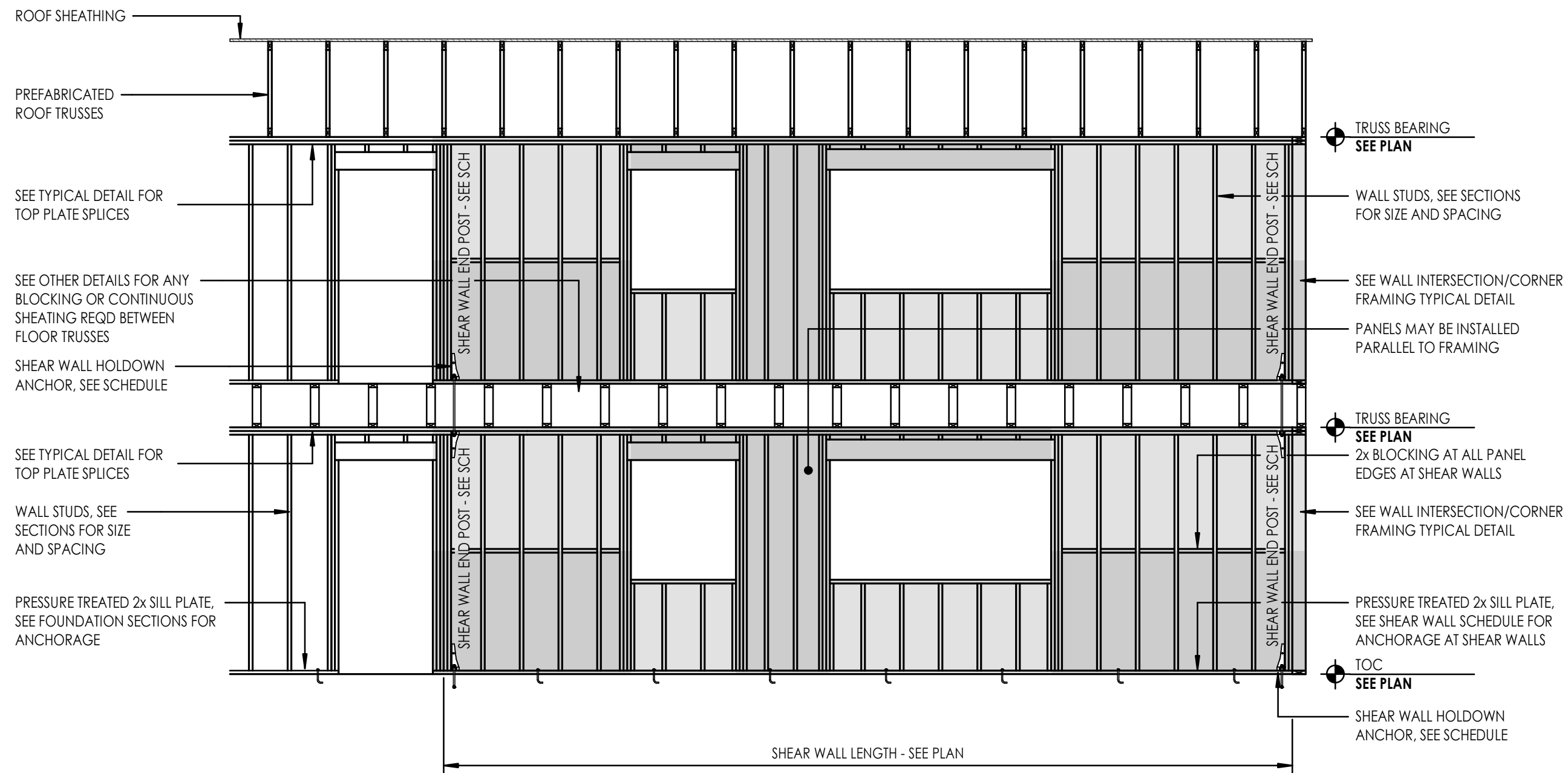
6 TYPICAL SIMPSON STUD TO STUD STRAP

1 1/2" = 1'-0"



7 EXTERIOR WALL FRAMING AT CONT SHEAR WALL

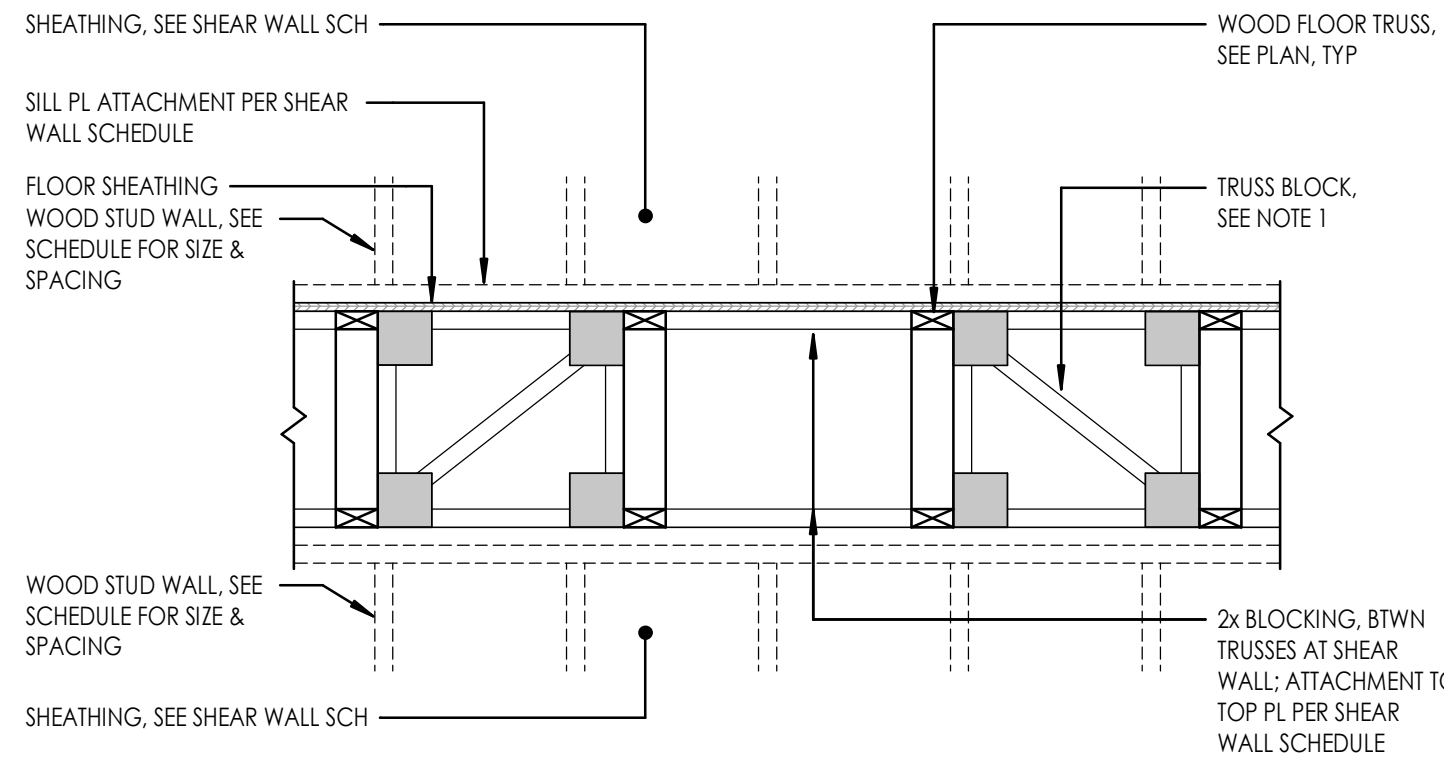
1" = 1'-0"



WOOD SHEAR WALL SCHEDULE									
MARK	SHEATHING	NAILS	NAIL SPACING		END CONDITION		SILL PLATE ANCHORAGE AND SPACING		NOTES
			ALL PANEL EDGES	PANEL FIELD	END POST	HOLDOWN ANCHOR & DETAIL	ELEVATED WOOD LEVELS	FOUNDATION	
SW1	5/8" GB	6d	7"OC	7"OC	(2) 2x4	NONE	(2) 16d NAILS @ 16"OC	N/A	
SW2	5/8" GB	6d	4"OC	7"OC	(2) 2x4	NONE	N/A	1/2" DIA ANCHOR BOLTS @ 48"OC	
SW3	7/16" PLY/OSB	8d	6"OC	12"OC	(2) 2x4	NONE	(2) 16d NAILS @ 16"OC	1/2" DIA ANCHOR BOLTS @ 32"OC	
SW4	7/16" PLY/OSB	8d	6"OC	12"OC	(2) 2x4	(2) CS16 = 6/5501	(2) 16d NAILS @ 16"OC	N/A	
SW5	7/16" PLY/OSB	8d	4"OC	12"OC	(2) 2x4	NONE	(2) 16d NAILS @ 16"OC	1/2" DIA ANCHOR BOLTS @ 32"OC	
SW6	7/16" PLY/OSB	8d	3"OC	12"OC	(3) 2x4	NONE	N/A	1/2" DIA ANCHOR BOLTS @ 48"OC	
SW7	7/16" PLY/OSB	8d	3"OC	12"OC	(4) 2x4	HDU5 = 5/5501	N/A	1/2" DIA ANCHOR BOLTS @ 18"OC	

1 SHEAR WALL CONSTRUCTION - 2 STORY

1/4" = 1'-0"



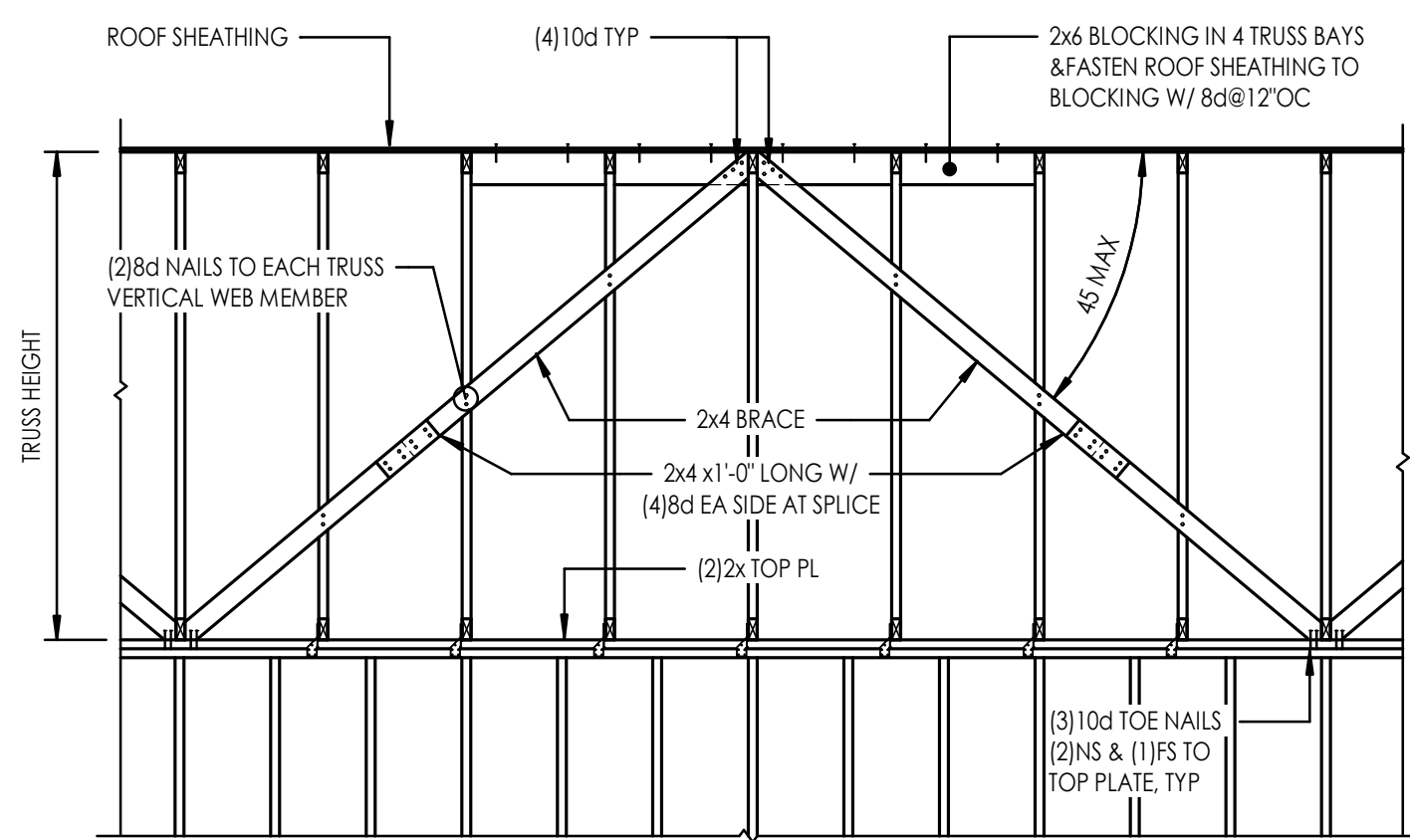
NOTES:

1. LOCATE TRUSS BLOCK EACH END OF SHEAR WALL AND EVERY OTHER TRUSS SPACE. MINIMUM OVER LENGTH OF SHEAR WALL. DESIGN TRUSS BLOCKS OVER LENGTH OF SHEAR WALL. DRAG FORCE AS FOLLOWS:

	(0.6W - ASD)	(0.7E - ASD)
SW1	135 PLF	135 PLF
SW2	165 PLF	165 PLF
SW3, SW4	340 PLF	240 PLF
SW5, SW6	490 PLF	350 PLF
SW7	630 PLF	450 PLF

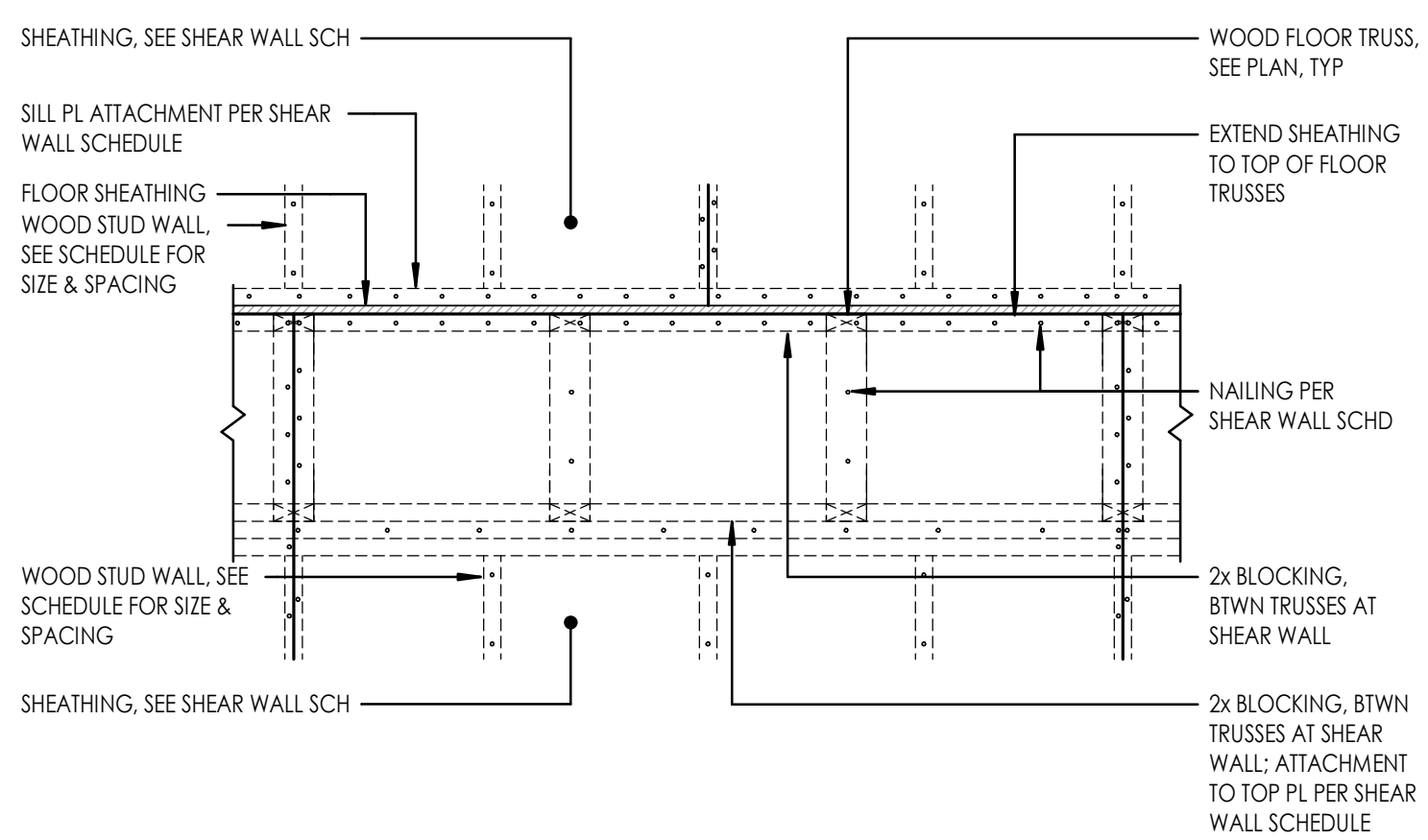
2 TRUSS BLOCK/SHEAR TRANSFER DETAIL

3/4" = 1'-0"



4 TYPICAL BRACING BETWEEN ROOF TRUSSES AT SHEAR WALLS

3/8" = 1'-0"



3 TRUSS BLOCK/SHEAR TRANSFER ALTERNATE

3/4" = 1'-0"

Floor Plan Keynotes

#	DESCRIPTION
1	LINE OF ROOF ABOVE
2	ADA RAMP
3	KNOX BOX - VERIFY HEIGHT & LOCATION W/ FIRE MARSHALL
4	APPROX. ROOF LEADER LOCATION - TO BE VERIFIED
5	STAFF PRINTER - SPEC TO BE VERIFIED
6	UNDER COUNTER STAFF REFRIGERATOR
7	LUGGAGE CART & WHEEL CHAIR STORAGE
8	BANQUETTE SEATING - RE: FINISH SCHEDULE
9	BEVERAGE STATION - COFFEE, WATER, TRASH
16	LIVERS BRONZE OR EQ. GLASS RAILING

Finish Notes

1. VERIFY ALL FINISHES W/ ARCHITECT
2. SUBMIT SAMPLES & SUBSTITUTIONS PRIOR TO ORDERED & INSTALLING.
3. ALL NEW CUSTOM MILLWORK TO HAVE SOLID SURFACE TOPS & STAIN GRADE WOOD FRONTS, TYP. UNLESS NOTED OTHERWISE ON FINISH PLAN.
4. PROVIDE A LEVEL (5) FINISH AT ALL WALLS LOCATED IN PUBLIC AREAS.
5. G.C. TO PROVIDE ALL BLOCKING REQ'D FOR WALL-MOUNTED SHELVES, CABINETS & CASEWORK.
6. ALL MATERIAL TRANSITIONS TO MEET ADA REQUIREMENTS.
7. COUNTERSINK ALL NAIL & SCREW HEADS MIN. 1/8" WHERE EXPOSED & FILL ALL HOLES.
8. PRIOR TO APPLICATION OF NEW FINISHES, CLEAN EXISTING SURFACES THOROUGHLY SO NEW FINISH WILL ADHERE PROPERLY.
9. ALL WD. TRIM & PLYWOOD VENEER REQUIRES MACHINE & HAND SANDING PRIOR TO STAIN OR PAINT BETWEEN FINISH COATS, TO PROVIDE AN ACCEPTABLE END PRODUCT.
10. MIN. FLAMESPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL CONFORM TO CURRENT, LOCAL & STATE BLDG. CODES/ORDINANCES.

Dimension Notes

- 3'-0" TO FACE OF STUD
- 3'-0" MIN. MINIMUM DIMENSION ALLOWED (MAY BE MORE)
- 3'-0" MAX. MAXIMUM DIMENSION ALLOWED (MAY BE LESS)
- 3'-0" CLR. EXACT DISTANCE BETWEEN FINAL FINISHED SURFACES (ALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED)
- 3'-0" VERIFY TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD (BE AWARE OF POSSIBLE CHANGE)
- 3'-0" DIMENSION MEASURED BETWEEN CENTERLINE OF MULTIPLE OBJECTS (NOTE NODES ON DIMENSION LINE)

Wall Type Legend

- WALL TYPE - SEE LEGEND
- FRAMING WIDTH
- WALL TYPE MODIFIER
- MATERIAL
- MATERIAL KEY:
W= WOOD
C= CMU
- EXAMPLE:
- FRAMING DIMENSION KEY:
2 = 1 1/2" (WOOD)
3 = 2 1/2" (WOOD)
4 = 3 1/2" (WOOD)
6 = 5 1/2" (WOOD)
8 = 8" (CMU)
- WALL TYPE
- 4" (3 1/2" ACTUAL)
- ACOUSTICAL BATTS
- WOOD STUD (TO ASSEMBLY ABOVE)

Wall Type Legend - Rated Assemblies

WALL TYPES	RATED ASSEMBLY SEE G005, G006, & G007
1 SHAFT WALL: 2 HOUR RATED 8" CMU, 1 HOUR REQ'D	UL #U905
2 1 HOUR RATED INTERIOR BEARING WALL	UL #U305
3 1 HOUR RATED FIRE PARTITION: INTERIOR LOAD BEARING TENANT DEMISING WALL, DOUBLE 2"x4" WALLS	UL #U341
4 30 MIN. RATED CORRIDOR WALL, 2"x8" TOP/BOTTOM PLATES W/ STAGGERED 2X4 STUDS @ 24" O.C.	UL #U340
5 2"x4" INTERIOR WD STUD WALL, FURRING - 5/8" GWB FINISH SIDE. PROVIDE 1" AIR GAP AGAINST CMU WALL CONDITIONS, TYP U.N.O	
6 2"x4" EXTERIOR STUD WALL	
7 2"x6" EXTERIOR STUD WALL	
8 2"x4" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
9 2"x6" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
10 2"x3" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
11 SHAFT WALL - 1 HOUR RATED SHAFT WALL SHAFT <3 STORIES	UL #U469
MODIFIERS	
A SOUND ATTENUATION INSULATION FULL DEPTH OF STUDS	
B R-21 INSULATION	
C SECOND LAYER 5/8" GYP. BD. & SOUND ATTEN. BATT INSULATION	
D PROVIDE DenSHIELD OR EQ. TILE BACKER BOARD	
E MOISTURE RESISTANT DRYWALL AT WET AREAS	

Wall Legend / Symbols

- EXISTING WALL TO REMAIN
- NEW STUD FRAMING
- BRICK VENEER WALL
- CMU WALL
- CONCRETE WALL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- DETAIL NUMBER
- ELEVATION / SECTION MARKER
- SHEET NUMBER
- DOOR NUMBER, SEE A801
- WINDOW TYPE, SEE A801
- FIRE EXTINGUISHER

General Plan Notes

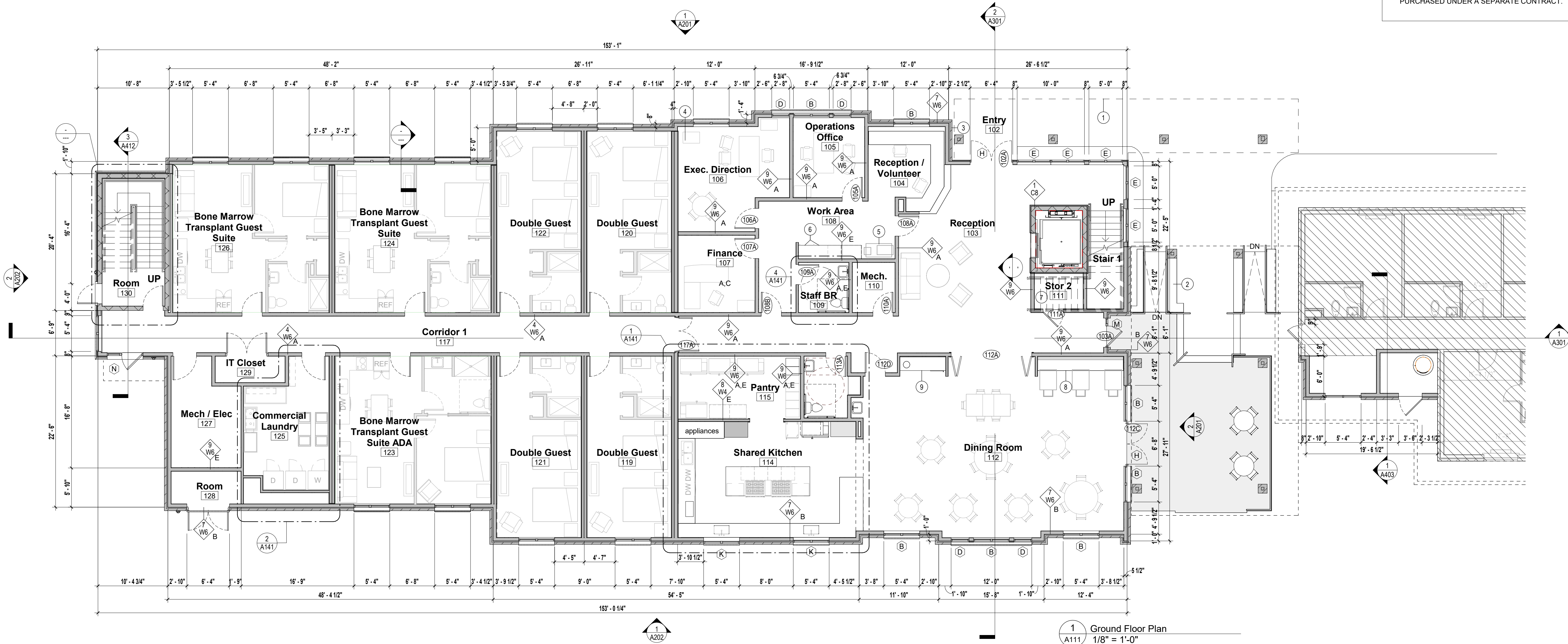
1. **DO NOT** SCALE DRAWINGS.
2. MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL CONFORM TO LOCAL AND STATE BUILDING CODES / ORDINANCES.
3. PATCH & REPAIR ALL WALLS AS REQ'D THROUGHOUT.
4. VERIFY ALL BASE BUILDING AND PLAN/LAYOUT DIMENSIONS PRIOR TO CONSTRUCTION. COORD. ANY DISCREPANCIES W/ ARCHITECT IMMEDIATELY.
5. G.C. TO VERIFY EXISTING CONCRETE FLOOR TO BE LEVEL AND IN GOOD CONDITION. PATCH & SEAL ANY CRACKS, HOLES, OR FISSURES AS REQ'D TO RECEIVE NEW FLOOR FINISHES.
6. G.C. TO COORDINATE ALL FLOOR FINISHES TO ALLOW FOR SMOOTH, LEVEL TRANSITIONS BETWEEN MATERIALS.
7. G.C. IS RESPONSIBLE FOR PATCHING & REPAINTING WALLS & CEILING AFTER INSTALLATION OF ALL EQUIPMENT.
8. CONTRACTOR SHALL PROVIDE & INSTALL ALL STIFFENERS, BRACING, BACKUP PLATES & SUPPORTING BRACKETS REQ'D FOR THE INSTALLATION OF ALL ALL TOILET ROOM RAILINGS, TOILET ROOM ACCESSORIES, SUSPENDED OR WALL MOUNTED MECHANICAL, ELECTRICAL, OR MISC. EQUIPMENT, CABINETS & WALL SHELVING.

WALL TYPE NOTES:

1. PROVIDE MOISTURE RESISTANT DRYWALL AT NEW PARTITIONS IN NEW & EXISTING RESTROOMS.
2. PROVIDE TILE BACKER AT RESTROOM WET WALLS TO RECEIVE TILE FINISH.
3. ALL INTERIOR WALLS ARE W4 UNLESS OTHERWISE NOTED.
4. ALL FRAMING AND DRYWALL INSTALLATION TO BE IN ACCORDANCE WITH THE GYPSUM CONSTRUCTION HANDBOOK, 7TH EDITION, PUBLISHED BY USG.

FURNITURE:

1. ALL NEW FURNITURE & WORKSTATION SYSTEMS FURNITURE TO BE PURCHASED UNDER A SEPARATE CONTRACT.



new city
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5 MARCH 2025

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CARING HOUSE EXPANSION
Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707

DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

Ground Floor Plan

SHEET NUMBER

A111

#	DESCRIPTION
1	LINE OF ROOF ABOVE
2	ADA RAMP
3	KNOX BOX - VERIFY HEIGHT & LOCATION W/ FIRE MARSHALL
4	APPROX. ROOF LEADER LOCATION - TO BE VERIFIED
5	STAFF PRINTER - SPEC TO BE VERIFIED
6	UNDER COUNTER STAFF REFRIGERATOR
7	LUGGAGE CART & WHEEL CHAIR STORAGE
8	BANQUETTE SEATING - RE: FINISH SCHEDULE
9	BEVERAGE STATION - COFFEE, WATER, TRASH
16	LIVERS BRONZE OR EQ. GLASS RAILING

Finish Notes

1. VERIFY ALL FINISHES W/ ARCHITECT
2. SUBMIT SAMPLES & SUBSTITUTIONS PRIOR TO ORDERED & INSTALLING.
3. ALL NEW CUSTOM MILLWORK TO HAVE SOLID SURFACE TOPS & STAIN GRADE WOOD FRONTS, TYP. UNLESS NOTED OTHERWISE ON FINISH PLAN.
4. PROVIDE A LEVEL (5) FINISH AT ALL WALLS LOCATED IN PUBLIC AREAS.
5. G.C. TO PROVIDE ALL BLOCKING REQ'D FOR WALL-MOUNTED SHELVES, CABINETS & CASEWORK.
6. ALL MATERIAL TRANSITIONS TO MEET ADA REQUIREMENTS.
7. COUNTERSINK ALL NAIL & SCREW HEADS MIN. 1/8" WHERE EXPOSED & FILL ALL HOLES.
8. PRIOR TO APPLICATION OF NEW FINISHES, CLEAN EXISTING SURFACES THOROUGHLY SO NEW FINISH WILL ADHERE PROPERLY.
9. ALL WD. TRIM & PLYWOOD VENEER REQUIRES MACHINE & HAND SANDING PRIOR TO STAIN OR PAINT BETWEEN FINISH COATS, TO PROVIDE AN ACCEPTABLE END PRODUCT.
10. MIN. FLAMESPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL CONFORM TO CURRENT, LOCAL & STATE BLDG. CODES/ORDINANCES.

Dimension Notes

- 3'-0" TO FACE OF STUD
- 3'-0" MIN. MINIMUM DIMENSION ALLOWED (MAY BE MORE)
- 3'-0" MAX. MAXIMUM DIMENSION ALLOWED (MAY BE LESS)
- 3'-0" CLR. EXACT DISTANCE BETWEEN FINAL FINISHED SURFACES (ALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED)
- 3'-0" VERIFY TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD (BE AWARE OF POSSIBLE CHANGE)
- 3'-0" DIMENSION MEASURED BETWEEN CENTERLINE OF MULTIPLE OBJECTS (NOTE NODES ON DIMENSION LINE)

Wall Type Legend

- WALL TYPE - SEE LEGEND
- FRAMING WIDTH
- WALL TYPE MODIFIER
- MATERIAL
- MATERIAL KEY:
W = WOOD
C = CMU
- EXAMPLE:
- WALL TYPE
- 4" (3 1/2" ACTUAL)
- ACOUSTICAL BATTS
- WOOD STUD (TO ASSEMBLY ABOVE)
- FRAMING DIMENSION KEY:
2 = 1 1/2" (WOOD)
3 = 2 1/2" (WOOD)
4 = 3 1/2" (WOOD)
6 = 5 1/2" (WOOD)
8 = 8" (CMU)

Wall Type Legend - Rated Assemblies

WALL TYPES	RATED ASSEMBLY SEE G005, G006, & G007
1 SHAFT WALL: 2 HOUR RATED 8" CMU, 1 HOUR REQ'D	UL #U905
2 1 HOUR RATED INTERIOR BEARING WALL	UL #U305
3 1 HOUR RATED FIRE PARTITION: INTERIOR LOAD BEARING TENANT DEMISING WALL, DOUBLE 2"x4" WALLS	UL #U341
4 30 MIN. RATED CORRIDOR WALL, 2"x8" TOP/BOTTOM PLATES W/ STAGGERED 2X4 STUDS @ 24" O.C.	UL #U340
5 2"x4" INTERIOR WD STUD WALL, FURRING - 5/8" GWB FINSH SIDE. PROVIDE 1" AIR GAP AGAINST CMU WALL CONDITIONS, TYP U.N.O	
6 2"x4" EXTERIOR STUD WALL	
7 2"x6" EXTERIOR STUD WALL	
8 2"x4" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
9 2"x6" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
10 2"x3" INTERIOR WD STUD WALL, 5/8" GWB BOTH SIDES	
11 SHAFT WALL - 1 HOUR RATED SHAFT WALL SHAFT <3 STORIES	UL #U469
MODIFIERS	
A SOUND ATTENUATION INSULATION FULL DEPTH OF STUDS	
B R-21 INSULATION	
C SECOND LAYER 5/8" GYP. BD. & SOUND ATTEN. BATT INSULATION	
D PROVIDE DenSHIELD OR EQ. TILE BACKER BOARD	
E MOISTURE RESISTANT DRYWALL AT WET AREAS	

Wall Legend / Symbols

- EXISTING WALL TO REMAIN
- NEW STUD FRAMING
- BRICK VENEER WALL
- CMU WALL
- CONCRETE WALL
- 1 HOUR RATED WALL
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- DOOR NUMBER, SEE A801
- WINDOW TYPE, SEE A801
- FIRE EXTINGUISHER

General Plan Notes

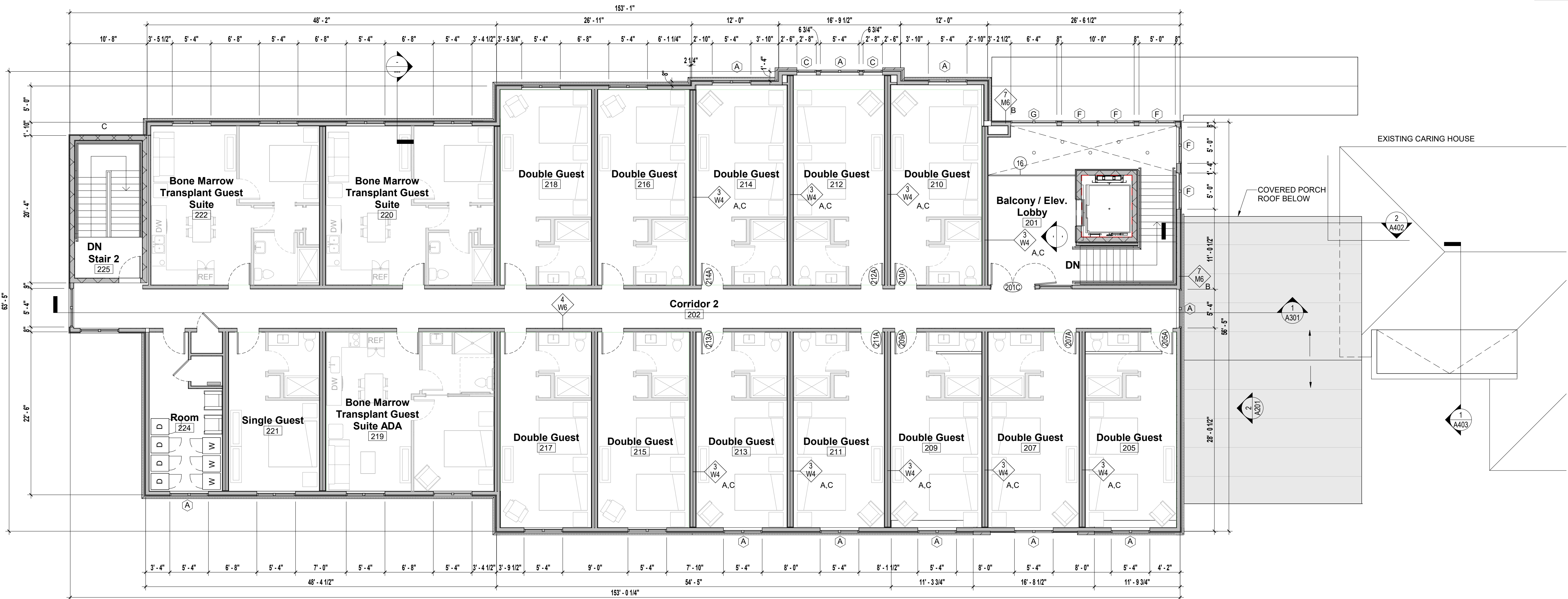
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WALL TYPE NOTES:

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FURNITURE:

1. ALL NEW FURNITURE & WORKSTATION SYSTEMS FURNITURE TO BE PURCHASED UNDER A SEPARATE CONTRACT.



1 Second Floor Plan

SCALE: 1/8" = 1'-0"

REVISION SCHEDULE

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CARING HOUSE EXPANSION
Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707
DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

Roof Plan

SHEET NUMBER

A113

Wall Legend / Symbols

	EXISTING WALL TO REMAIN
	NEW STUD FRAMING
	BRICK VENEER WALL
	CMU WALL
	CONCRETE WALL
	1 HOUR RATED WALL
	2 HOUR RATED WALL
	DETAIL NUMBER
	ELEVATION / SECTION MARKER
	SHEET NUMBER
	DOOR NUMBER, SEE A801
	WINDOW TYPE, SEE A801
	FIRE EXTINGUISHER

Dimension Notes

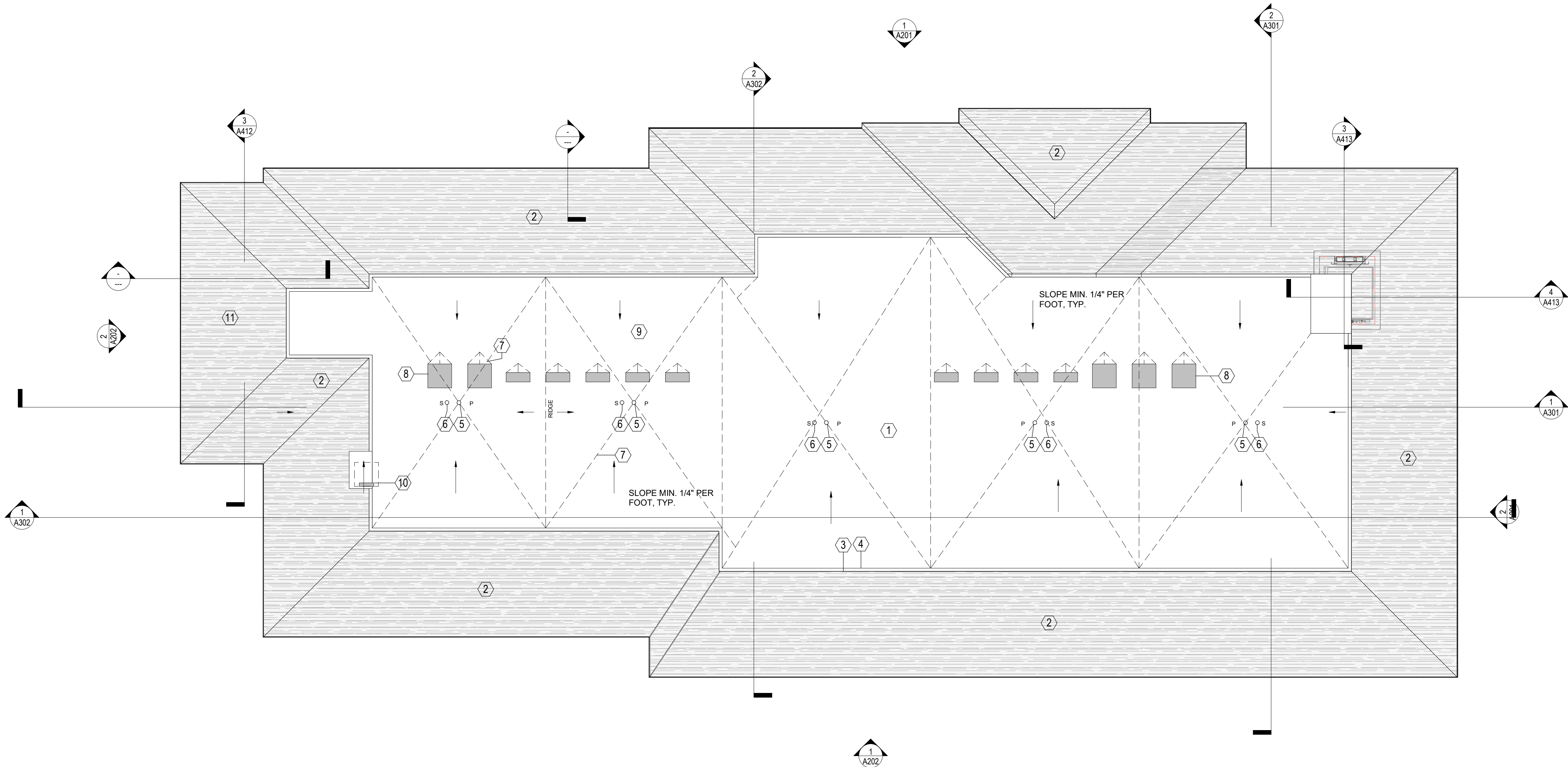
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	MINIMUM DIMENSION ALLOWED (MAY BE MORE)
	MAXIMUM DIMENSION ALLOWED (MAY BE LESS)
	EXACT DISTANCE BETWEEN FINAL FINISHED SURFACES (ALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED)
	TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD (BE AWARE OF POSSIBLE CHANGE)
	DIMENSION MEASURED BETWEEN CENTERLINE OF MULTIPLE OBJECTS (NOTE NODES ON DIMENSION LINE)

Roof Plan General Notes

- PROVIDE CURBS AS REQ'D FOR MOUNTING ALL ROOFTOP EQUIPMENT SHOWN.
- ALL ROOF SLOPES TO BE RECEIVED & APPROVED BY THE ROOFING SUPPLIERS.
- PROVIDE CRICKETS FOR PROPER DRAINAGE AT ALL ROOFTOP EQUIPMENT AND/OR PENETRATIONS.
- FOR HVAC UNITS, REFER TO MECHANICAL DRAWINGS - FLASH PER MANUF. SPECIFICATIONS.
- EXACT DIMENSIONS & LOCATIONS FOR MECH. EQUIPMENT SHALL BE COORDINATED BY G.C. - SHOP DRAWINGS TO BE REVIEWED BY THE ARCHITECT, STRUCTURAL & MECHANICAL ENGINEERS.
- G.C. SHALL VERIFY, COORDINATE AND/OR INSTALL ADJACENT RELATED FLASHING, BLOCKING, NAILERS, INSULATION STOPS, CRICKETS, ETC. AS NECESSARY FOR THE COMPLETE INSTALLATION OF THE WARRANTED ROOF INSTALLATION.
- COORDINATE ALL ROOF PENETRATIONS W/ STRUCTURAL ENGINEER.

Roof Plan Keynotes

Key #	Description
1	ROOF MEMBRANE OVER R-30 RIGID INSULATION, OVER 3/4" EXTERIOR PLYWOOD SHEATHING
2	SHINGLE ROOF - 6:12 SLOPE
3	ROOF MEMBRANE TURNS UP FACE OF MANSARD ROOF, RE: 1/A401
4	CONT. CANT STRIP
5	PRIMARY ROOF DRAIN - 4" - VERIFY W/ MEP. INTERNALLY DRAINED, TIED INTO STORMWATER FILTRATION IN DRIVE ISLAND
6	OVERFLOW (SECONDARY) DRAIN (O.D.)
7	CRICKET, TYP.
8	MECH. UNIT, RE: MECH. DWGS
9	EXHAUST FAN TO BE COORDINATED W/ FUTURE MEP
10	ROOF SCUTTLE - BILCO OR EQ.
11	MEMBRANE ROOF BELOW
12	CHIMNEY



1 Roof Plan
A113 SCALE: 1/8" = 1'-0"

Ceiling Plan Keynotes

Key #	Description
1	CEILING KEYNOTE
2	CEILING KEYNOTE

Wall Legend / Symbols

	EXISTING WALL TO REMAIN
	NEW STUD FRAMING
	BRICK VENEER WALL
	CMU WALL
	CONCRETE WALL
	1 HOUR RATED WALL
	2 HOUR RATED WALL
	DETAIL NUMBER
	ELEVATION / SECTION MARKER
	SHEET NUMBER
	DOOR NUMBER, SEE A801
	WINDOW TYPE, SEE A801

Dimension Notes

	TO FACE OF STUD
	MINIMUM DIMENSION ALLOWED (MAY BE MORE)
	MAXIMUM DIMENSION ALLOWED (MAY BE LESS)
	EXACT DISTANCE BETWEEN FINAL FINISHED SURFACES (ALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED)
	TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD (BE AWARE OF POSSIBLE CHANGE)
	DIMENSION MEASURED BETWEEN CENTERLINE OF MULTIPLE OBJECTS (NOTE NODES ON DIMENSION LINE)

Ceiling Plan General Notes

1. **DO NOT** SCALE DRAWINGS.
2. VERIFY ALL BASE BUILDING DIMENSIONS PRIOR TO CONSTRUCTION - COORD. ANY DISCREPANCIES W/ ARCHITECT IMMEDIATELY.
3. PROVIDE BLOCKING TO SUPPORT ALL CEILING MOUNTED DEVICES INCLUDING LIGHT FIXTURES, HVAC REGISTERS, SIGNAGE, ETC.
4. ALL ELEVATION REFERENCES ARE TO FINISH U.N.O.
5. PAINT ALL CEILING DIFFUSERS, GRILLS, ETC. AS NECESSARY TO MATCH ADJACENT CEILINGS, U.N.O.
6. PROVIDE WET LISTED FIXTURES AS REQ'D BY CODE.
7. PROVIDE BATTERY BACK-UP AT LIGHTING FIXTURES SHOWN AS REQ'D TO PROVIDE EMERGENCY LIGHTING. RE: ELECTRICAL DRAWINGS
8. ALL LED TYPE FIXTURES TO COMPLY WITH LM 79 TEST AND PROVIDE A 5 YEAR WARRANTY TO COVER ENTIRE LUMINAIRE.

Ceiling Legend:

U1		UTILITY LIGHT
F1		CEILING FAN WITH LIGHT KIT LIGHTING ON DIMMERS
F2		CEILING FAN - EXTERIOR GRADE PATIO CANOPY
C1		6" CAN LIGHT, 3000K COLOR TEMP. ON DIMMERS SEE ELEC. SCHEDULE
C2		3" CAN LIGHT, 3000K ON DIMMERS SEE ELEC. SCHEDULE
C3		3" CAN LIGHT - ON DIMMERS, DAMP RATED SEE ELEC. SCHEDULE. VERIFY TEMP.
C4		6" CAN LIGHT - WET LISTED, ON DIMMERS 3000K. LOCATION: PATIO CANOPY
EX1		BATHROOM EXHAUST FAN W/ LIGHT SEE ELEC. SCHEDULE
WS1		WALL SCONCE HALLWAY SEE ELEC. SCHEDULE: FIXTURE T.B.D.
WS2		WALL SCONCE - DAMP RATED UNIT RESTROOMS SEE ELEC. SCHEDULE: FIXTURE TBD
WS3		WALL SCONCE - WET LISTED EXTERIOR WALLS & COLUMNS FIXTURE ALLOWANCE: \$1000 PER FIXTURE
P1		DECORATIVE PENDANT FIXTURE FIXTURE ALLOWANCE: MAIN LOBBY: \$5,000 OFFICE VERSION: \$1,500 MULTI PURPOSE ROOMS: \$3,000
P2		PENDANT LIGHT FIXTURE ALLOWANCE: \$750 EACH
P3		PENDANT LIGHT LOBBY FIXTURE ALLOWANCE: \$7,000
P4		PENDANT LIGHT FIXTURE ALLOWANCE: \$1,000
W1		WALL SPOT, ON DIMMERS, 3000K SEE ELEC. SCHEDULE
		DECORATIVE TAG & WOOD CEILING, STAINED & SEALED

NOTE: FIXTURE ALLOWANCES ARE FOR AQUISITION ONLY AND EXCLUDE INSTALLATION / WORK.

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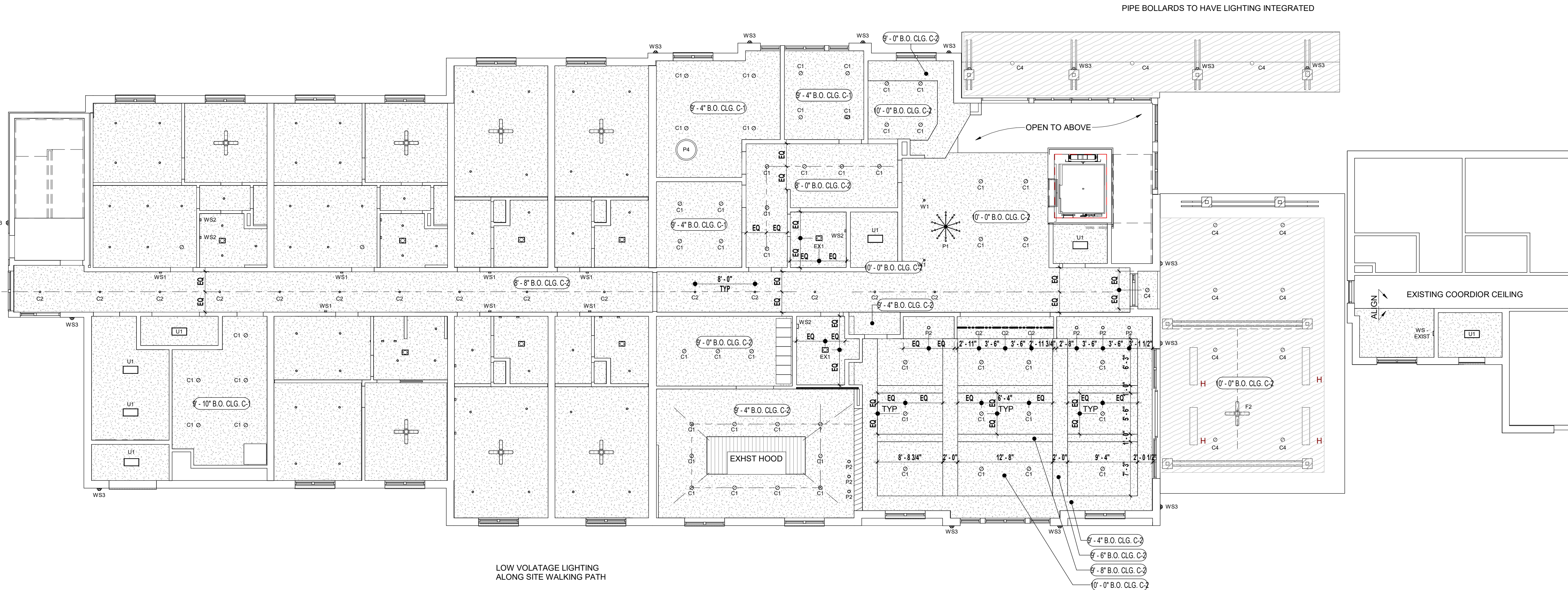
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CARING HOUSE EXPANSION

Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707

DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232
SHEET TITLE
Reflected Ceiling Plan
SHEET NUMBER
A121



1 Ground Floor Ceiling Plan
A121 SCALE: 1/8" = 1'-0"



1 Second Floor Ceiling Plan
A122 SCALE: 1/8" = 1'-0"

Ceiling Plan Keynotes

Key #	Description
1	CEILING KEYNOTE
2	CEILING KEYNOTE

Wall Legend / Symbols

	EXISTING WALL TO REMAIN
	NEW STUD FRAMING
	BRICK VENEER WALL
	CMU WALL
	CONCRETE WALL
	1 HOUR RATED WALL
	2 HOUR RATED WALL
	DETAIL NUMBER
	ELEVATION / SECTION MARKER
	SHEET NUMBER
	DOOR NUMBER, SEE A801
	WINDOW TYPE, SEE A801

Dimension Notes

	TO FACE OF STUD
	MINIMUM DIMENSION ALLOWED (MAY BE MORE)
	MAXIMUM DIMENSION ALLOWED (MAY BE LESS)
	EXACT DISTANCE BETWEEN FINAL FINISHED SURFACES (ALL DIMENSIONS ARE TO FACE OF FRAMING UNLESS OTHERWISE NOTED)
	TARGET DIMENSION WHICH MAY NOT BE ACHIEVED IN FIELD (BE AWARE OF POSSIBLE CHANGE)
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Ceiling Plan General Notes

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- PROVIDE BLOCKING TO SUPPORT ALL CEILING MOUNTED DEVICES INCLUDING LIGHT FIXTURES, HVAC REGISTERS, SIGNAGE, ETC.
- ALL ELEVATION REFERENCES ARE TO FINISH U.N.O.
- PAINT ALL CEILING DIFFUSERS, GRILLS, ETC. AS NECESSARY TO MATCH ADJACENT CEILINGS, U.N.O.
- PROVIDE WET LISTED FIXTURES AS REQ'D BY CODE.
- PROVIDE BATTERY BACK-UP AT LIGHTING FIXTURES SHOWN AS REQ'D TO PROVIDE EMERGENCY LIGHTING. RE: ELECTRICAL DRAWINGS
- ALL LED TYPE FIXTURES TO COMPLY WITH LM 79 TEST AND PROVIDE A 5 YEAR WARRANTY TO COVER ENTIRE LUMINAIRE.

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F1		CEILING FAN WITH LIGHT KIT LIGHTING ON DIMMERS
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C2		3" CAN LIGHT, 3000K ON DIMMERS SEE ELEC. SCHEDULE
C3		3" CAN LIGHT - ON DIMMERS, DAMP RATED SEE ELEC. SCHEDULE. VERIFY TEMP.
C4		6" CAN LIGHT - WET LISTED, ON DIMMERS 3000K, LOCATION: PATIO CANOPY
EX1		BATHROOM EXHAUST FAN W/ LIGHT SEE ELEC. SCHEDULE
WS1		WALL SCONCE HALLWAY SEE ELEC. SCHEDULE: FIXTURE T.B.D.
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Duke University Medical Center FPDC 1345
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DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

Reflected Ceiling Plan

SHEET NUMBER

A122

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Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707
DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

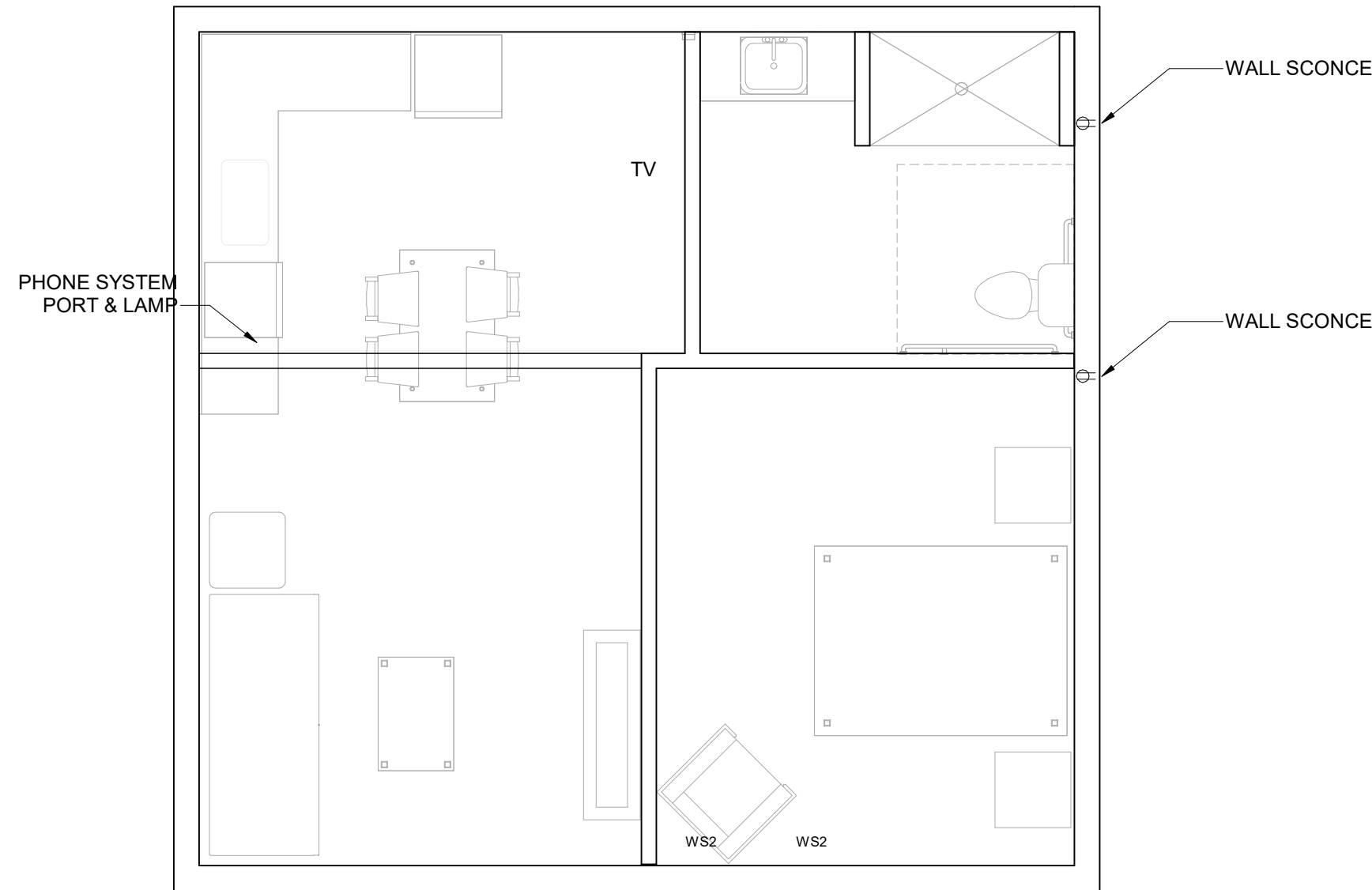
SHEET TITLE

Unit Plans

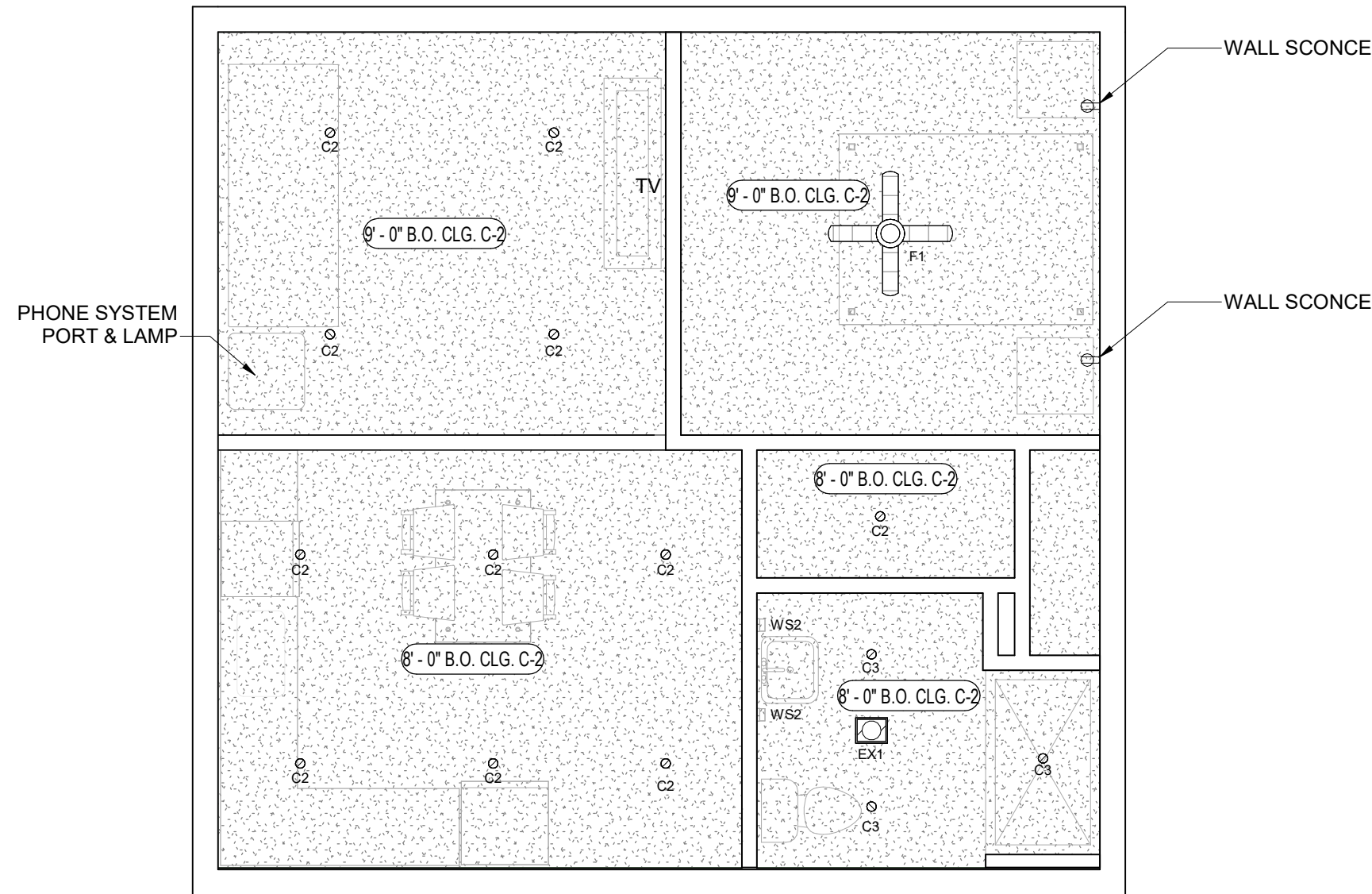
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A131

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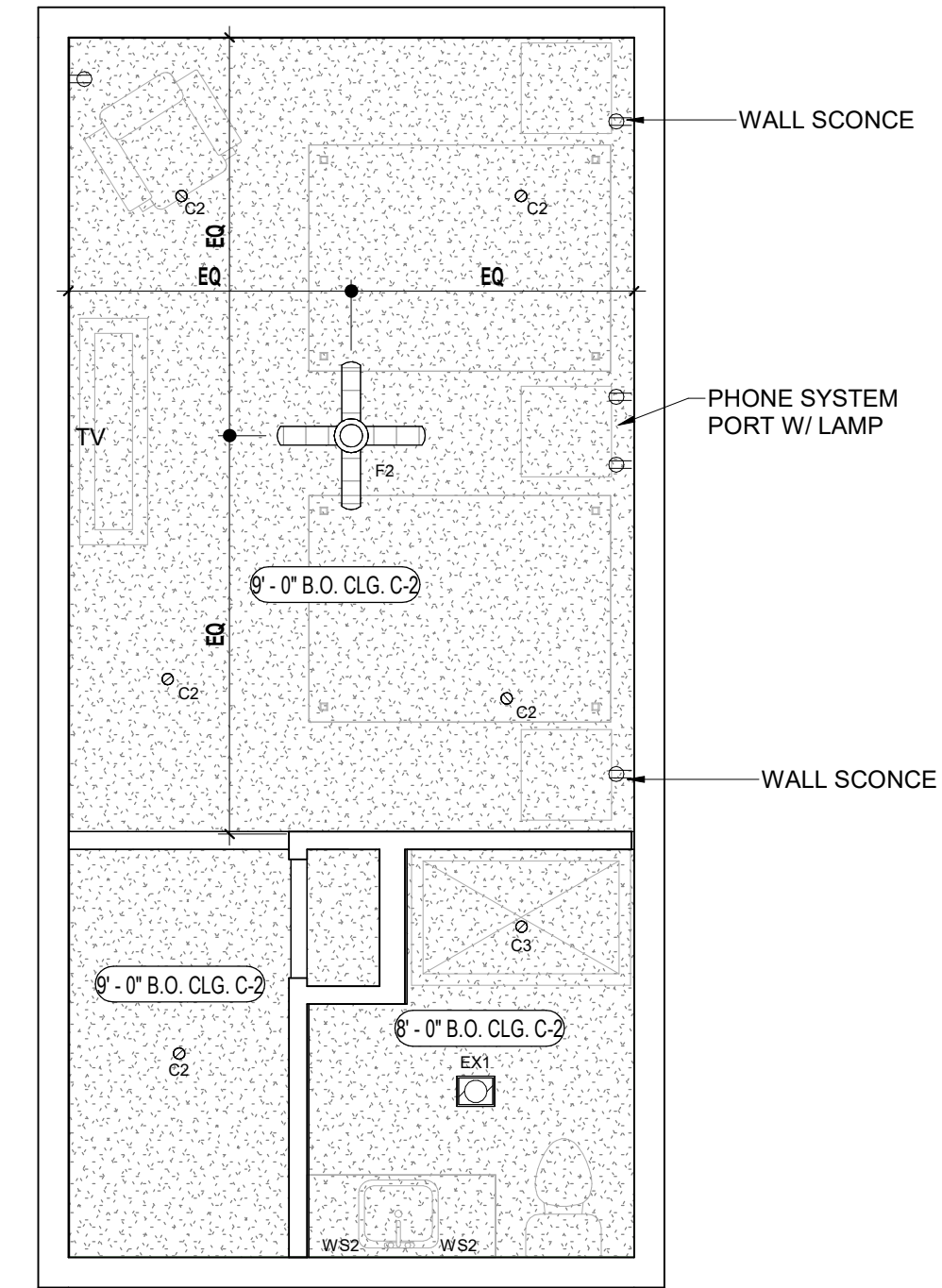


6 Unit RCP - Bone Marrow ADA
A131 SCALE: 1/4" = 1'-0"



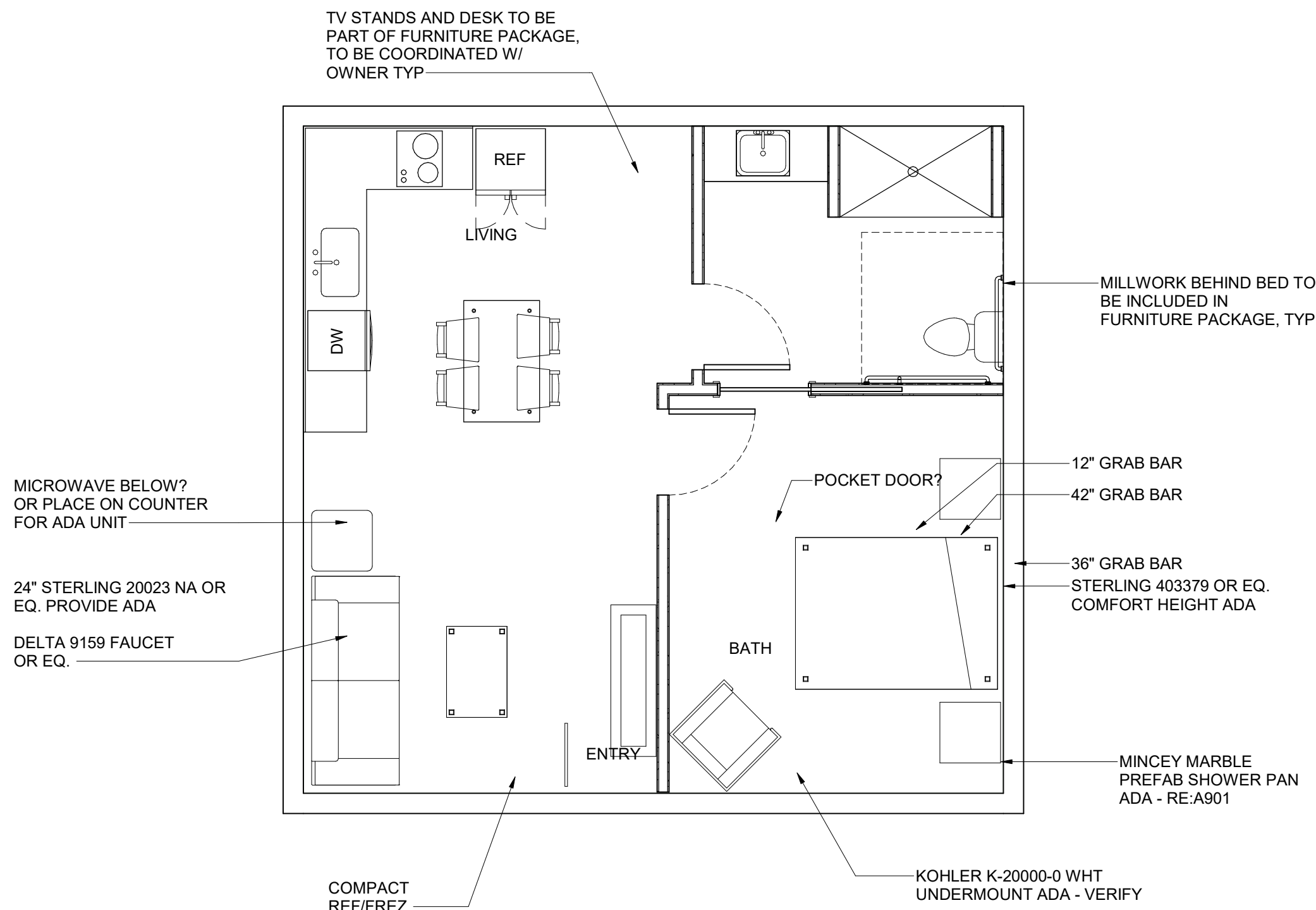
4 Unit RCP - Bone Marrow
A131 SCALE: 1/4" = 1'-0"

PRICE ALTERNATE FOR 4
ADDITIONAL CAN LIGHTS IN
TYP. DOUBLE GUEST ROOM

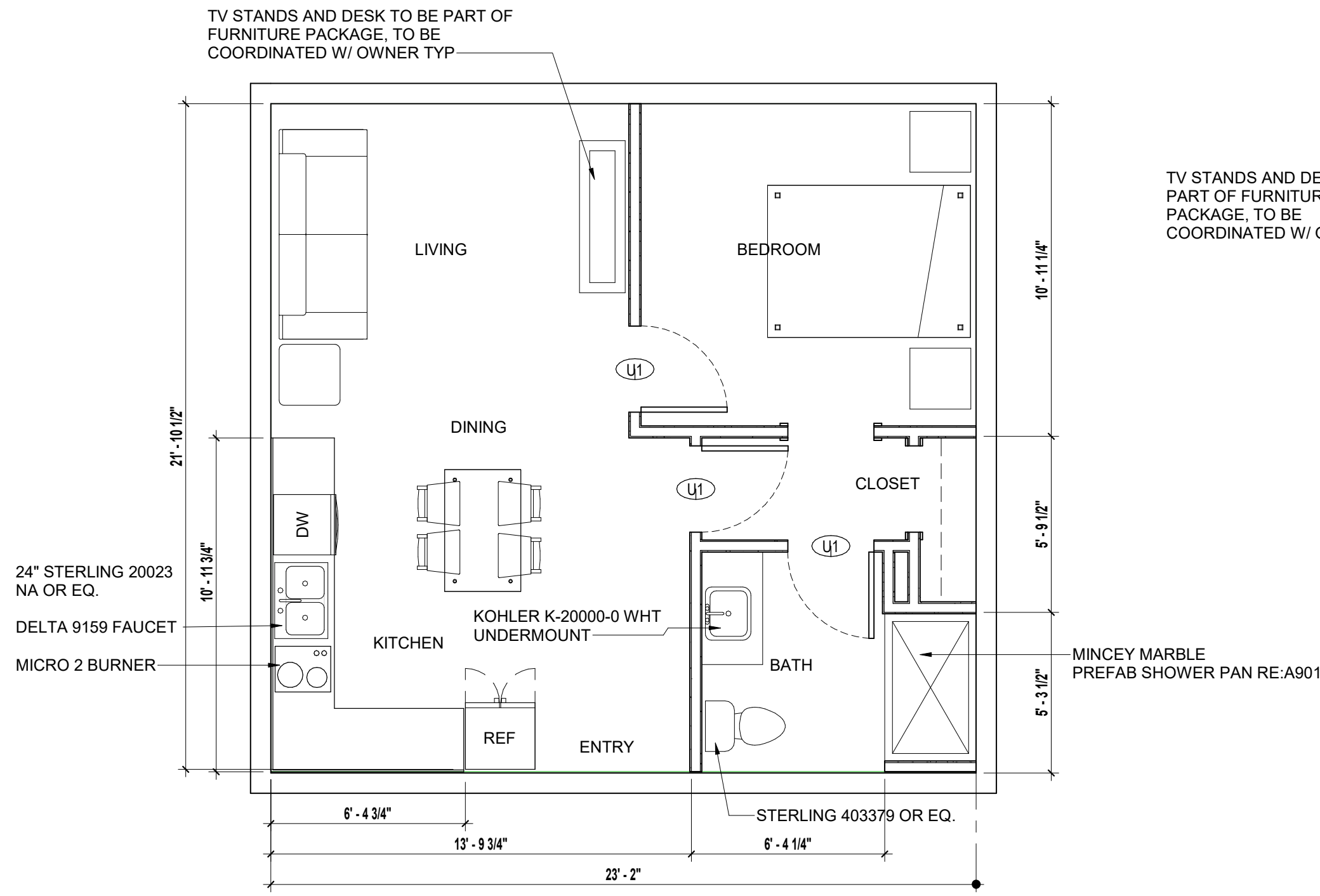


2 Unit RCP - Unit A
A131 SCALE: 1/4" = 1'-0"

NOTE: F F & E BY OTHERS. ALL FURNITURE TO BE COORDINATED ON FUTURE DRAWING DEVELOPMENT. PROVIDE ALLOWANCE FOR MISCELANOUS POWER REQUIREMENTS W/ BEDS, DRESSER AND DESK, TYP ALL UNIT PLANS.

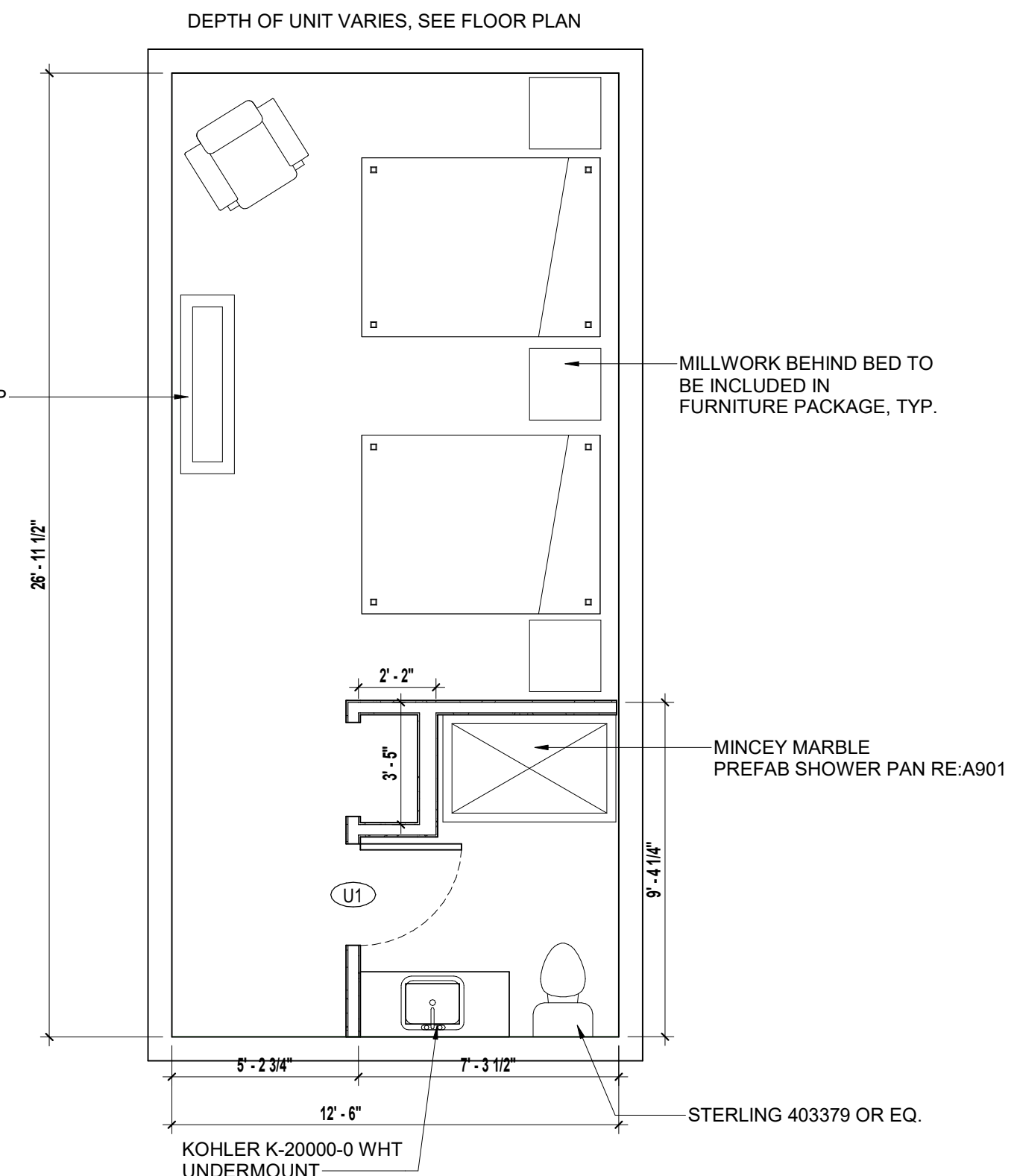


5 Unit Plan - Bone Marrow ADA
A131 SCALE: 1/4" = 1'-0"

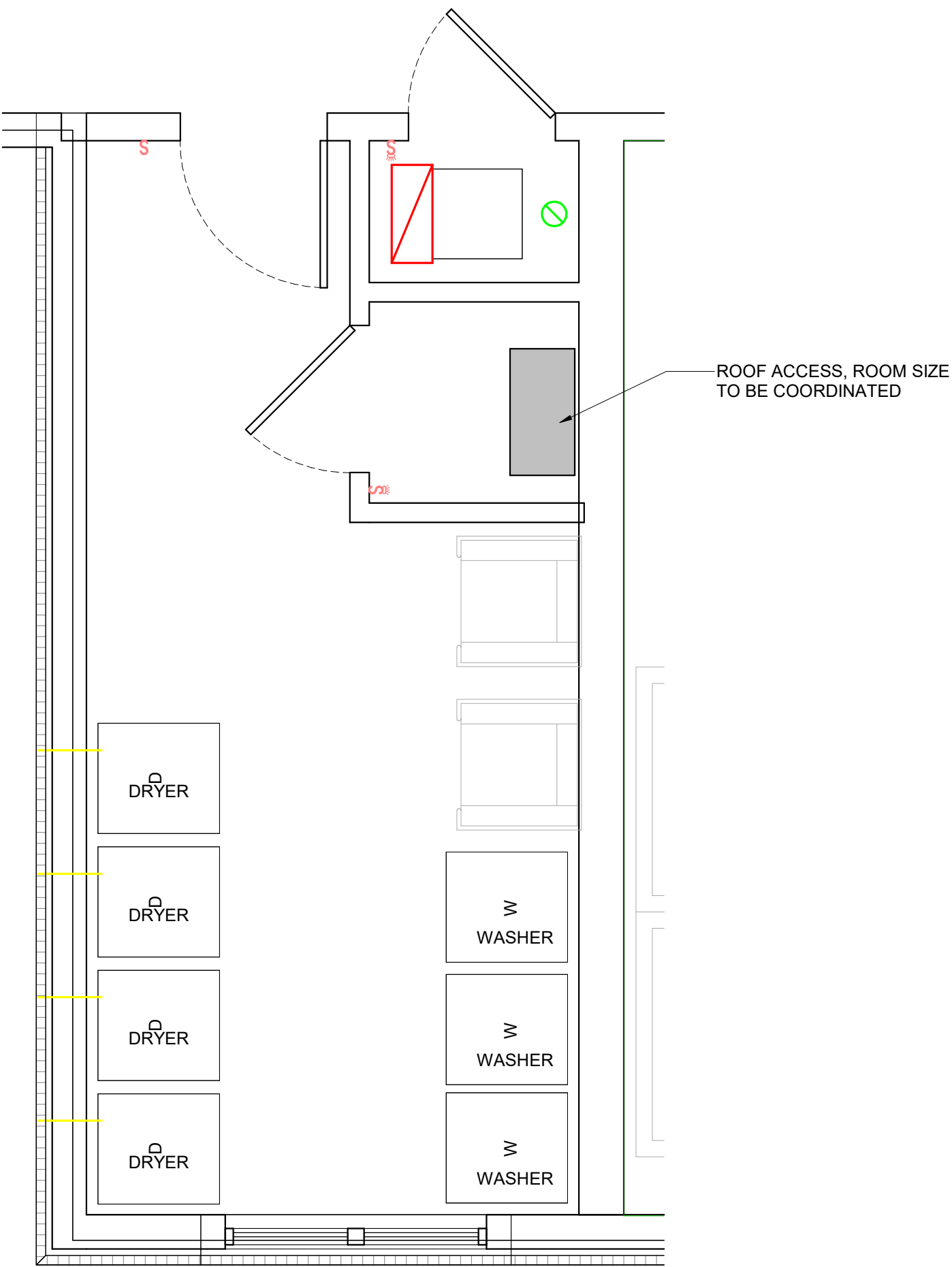


3 Unit Plan - Bone Marrow
A131 SCALE: 1/4" = 1'-0"

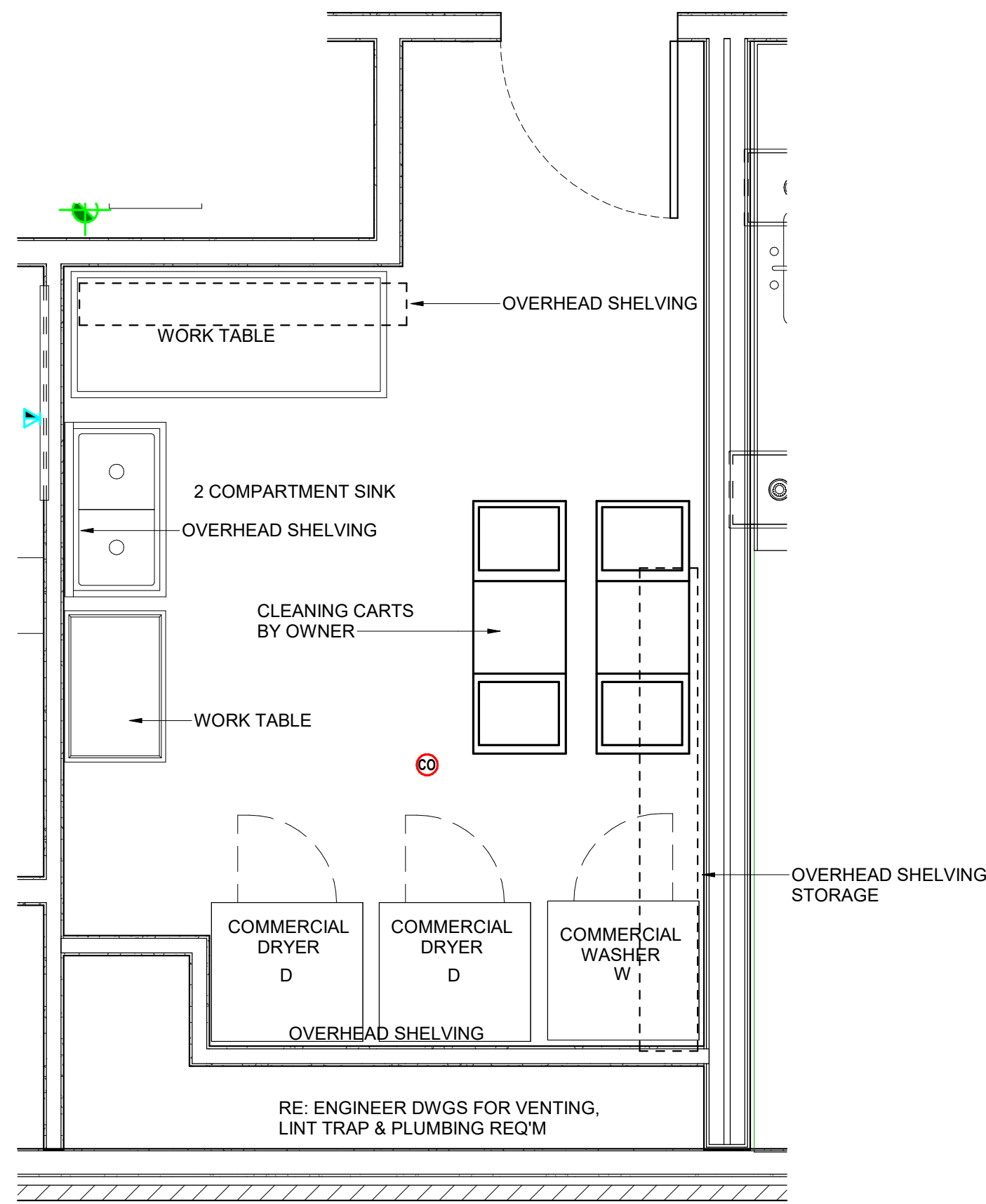
TV STANDS AND DESK TO BE
PART OF FURNITURE
PACKAGE, TO BE
COORDINATED W/ OWNER TYP



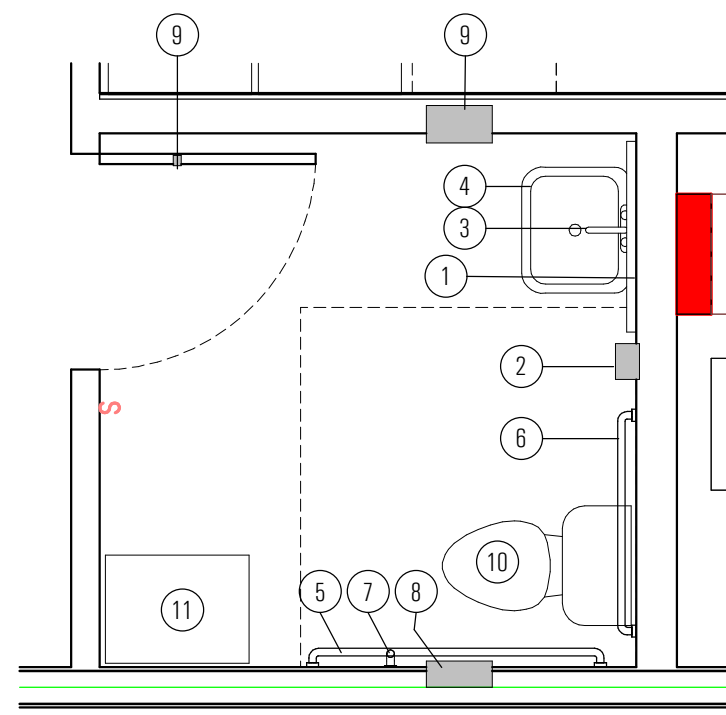
1 Unit Plan - Unit A
A131 SCALE: 1/4" = 1'-0"



3 Shared Laundry
SCALE: 3/8" = 1'-0"



2 Enlarged Commercial Laundry Plan
SCALE: 3/8" = 1'-0"



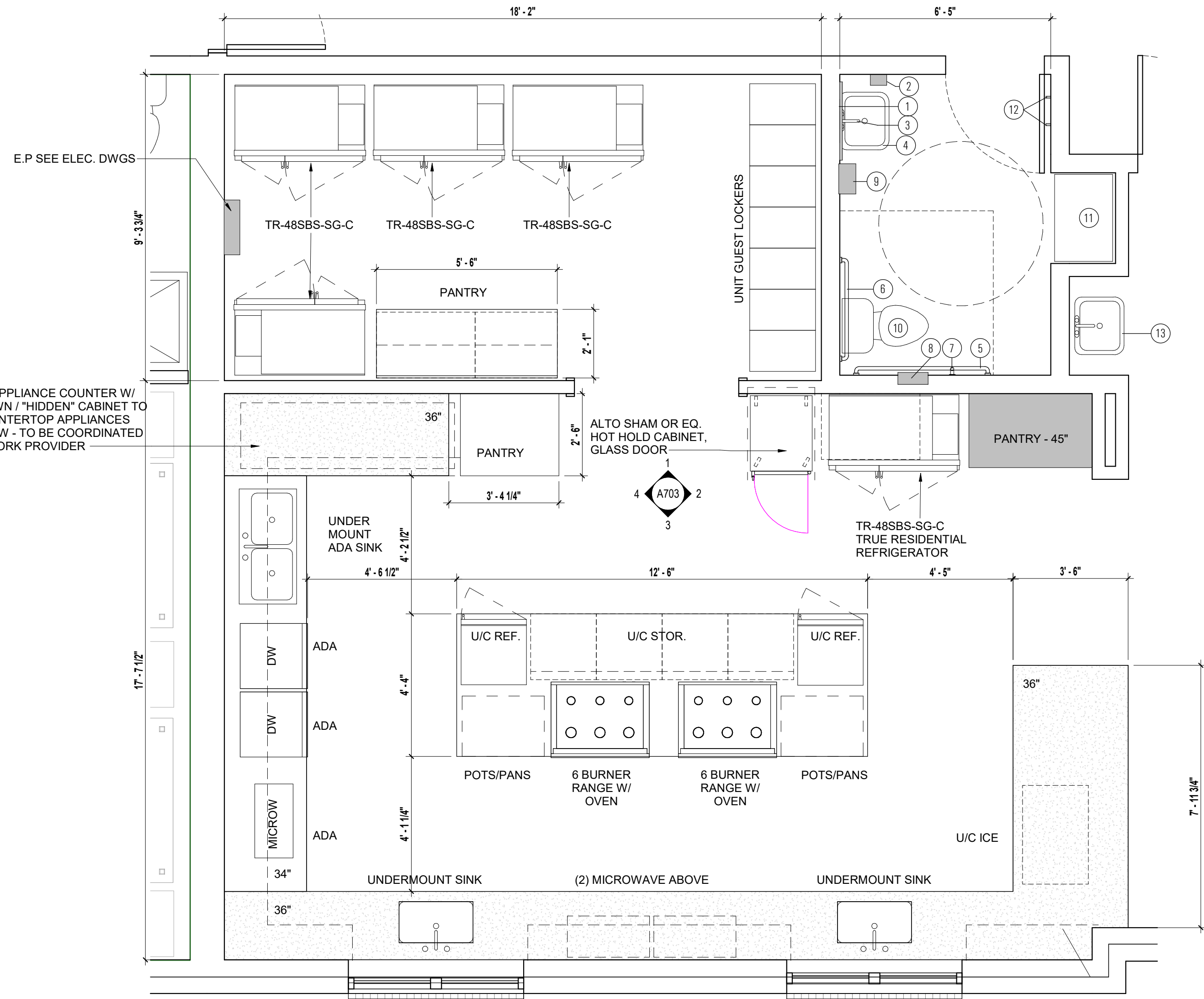
4 Enlarged Staff Restroom Plan
SCALE: 3/8" = 1'-0"

Toilet Room Notes

1. RE: G201 FOR TYPICAL ACCESSIBILITY DETAILS, MOUNTING HEIGHTS AND NOTES
2. O.F.C.I = OWNER FURNISHED, CONTRACTOR INSTALLED.
3. MILLWORK MANUF. TO FIELD VERIFY ALL ROUGH/FINISH OPENINGS PRIOR TO FABRICATION.
4. MIRRORS ARE TO BE MOUNTED W/ THE BOTTOM EDGE NO GREATER THAN 40" A.F.F
5. AT H.C. TOILETS, INSTALL FLUSH LEVER ON WIDE SIDE OF STALL.
6. PROVIDE CONT. WATERPROOFING MEMBRANE @ ALL WET FLOOR/ WALL TRANSITIONS. LOCATIONS, TYP.
7. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS - ACCOUNT FOR WALL FINISHES TO MAINTAIN REQUIRED ACCESSIBILITY / ADA CLEARANCES.
8. SPECIFICATION MANUFACTURERS AND MODEL NUMBERS ARE THE BASIS OF DESIGN. ACCEPTABLE MANUFACTURERS INCLUDE: BOBRICK, BRADLEY, & ASI
9. VERIFY FLOOR TILE PATTERN AND LAYOUT IN RESTROOMS W/ ARCHITECT PRIOR TO INSTALLATION.

RESTROOM ACCESSORIES LEGEND:

1	MIRROR; SURFACE MOUNT TO WALL; RE: INT ELEVATIONS	
2	WALL MOUNTED SOAP DISPENSER, O.F.C.I	
3	LAVATORY FAUCET	DELTA - 559LF
4	LAVATORY; UNDERMOUNTED BOWL PRICE OPT. FOR DECORATIVE FRONT SKIRT PROVIDE ANTI SCALD DRAIN COVER	AMERICAN STAND. OR EQ.
5	42" GRAB BAR; PROVIDE 12" WIDE X 16 GA. GALV STEEL BACKING	BOBRICK #B-5806-42
6	36" GRAB BAR; PROVIDE 12" WIDE X 16 GA. GALV STEEL BACKING	BOBRICK #B-5806-36
7	18" GRAB BAR; PROVIDE 12" WIDE X 16 GA. GALV STEEL BACKING	BOBRICK #B-5806-12
8	RECESSED SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER	BOBRICK #B-3094
9	RECESSED PAPER TOWEL DISPENSER	BOBRICK #B-359
10	WATER CLOSET; RE PLUMBING DRAWINGS PROVIDE DUAL FLUSH LEVER	
11	STORAGE CABINET - BY OWNER	
12	COAT HOOK	
13	HAND SINK	



NOTE: APPLIANCES & EQUIPMENT
UNDER SEPARATE CONTRACT, O.F.C.I

1 Enlarged Kitchen Plan
SCALE: 3/8" = 1'-0"

Exterior Materials:		
Exterior Finish		
BR-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	FIELD BRICK T.B.D GREY LINEAR BRICK BUILDING BASE & SECOND LEVEL AS SHOWN PROVIDE \$800 PER 1000 ALLOWANCE
EF-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	CEMENTITIOUS LAP SIDING T.B.D COMPLEMENTING GREY AS SHOWN AS SHOWN 4" EXPOSURE
G-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	ALUMINUM CLAD STOREFRONT SYSTEM T.B.D DARK BRONZE GLASS - 1" INSULATED LOW 'E' GLAZING ENTRY & MULTI PURPOSE AS SHOWN -
G-2	TYPE: MANUF: COLOR: LOCATION: NOTES:	ALUMINUM CLAD WINDOW SYSTEM JELDOWEN WINDOW OR EQ. DARK BRONZE GLASS - 1" INSULATED LOW 'E' GLAZING UNIT WINDOWS
M-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	BREAK METAL TRIM & COPING DARK BRONZE AS SHOWN
M-2	TYPE: MANUF: COLOR: LOCATION: NOTES:	BREAK METAL TRIM & COPING DARK BRONZE ENTRY CONNECTION
S-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	30 YEAR ARCHITECTURAL SHINGLE GAF OR EQ. GREY - TO MATCH ADJACENT BUILDING
W-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	CLEAR WESTERN RED CEDAR CLEAR SEAL ENTRY PLAZA COLUMNS

- Notes:
- ALL EXTERIOR GLAZING TO COMPLY WITH REQUIREMENTS OF THE CURRENT EDITION OF THE NC ENERGY CONSERVATION CODE. SEE BUILDING CODE SUMMARY ON G SERIES SHEETS FOR ADDITIONAL INFORMATION.
 - ALL EXTERIOR WINDOW FRAMES TO BE THERMALLY BROKEN. FINISH AS INDICATED.
 - WHERE APPLICABLE, A SEPARATE PERMIT SHALL BE REQUIRED FOR SIGNAGE AND AWNINGS.
 - GENERAL CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS AND PHYSICAL SAMPLES FOR ALL EXTERIOR MATERIALS TO NEW CITY DESIGN GROUP FOR REVIEW AND COMMENT/APPROVAL PRIOR TO ORDERING MATERIALS.
 - PROVIDE SEALANTS BETWEEN DISSIMILAR MATERIALS. MATCH COLOR TO ADJACENT WALL MATERIAL, TYP.
 - PATCH/REPAIR ALL DAMAGED MATERIALS AND TRIM AS REQUIRED FOR A UNIFORM, LIKE-NEW APPEARANCE.
 - COORDINATE CONTROL JOINTS W/ ARCHITECT PRIOR TO CONSTRUCTION
 - COORD. W/ LANDSCAPE ARCHITECT DWGS. FOR GENERAL GRADING & FINAL SURFACE ELEVATIONS.

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2625 Pickett Rd., Durham, NC 27707

DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

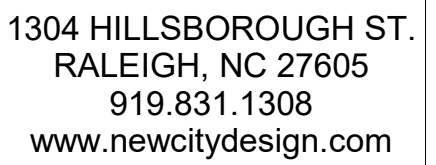
SHEET TITLE

Exterior Elevations

SHEET NUMBER

A201





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2625 Pickett Rd., Durham, NC 27707

Exterior Elevations

A202

Exterior Materials:		
Exterior Finish		
BR-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	FIELD BRICK T.B.D GREY LINEAR BRICK BUILDING BASE & SECOND LEVEL AS SHOWN PROVIDE \$900 PER 1000 ALLOWANCE
EF-1	TYPE: MANUF: COLOR:	CEMENTITIOUS LAP SIDING T.B.D COMPLIMENTING GREY AS SHOWN
	LOCATION: NOTES:	AS SHOWN 4" EXPOSURE
G-1	TYPE: MANUF: COLOR:	ALUMINUM CLAD STOREFRONT SYSTEM T.B.D DARK BRONZE
	LOCATION: NOTES:	GLASS - 1" INSULATED LOW 'E' GLAZING ENTRY & MULTI PURPOSE AS SHOWN -
G-2	TYPE: MANUF: COLOR:	ALUMINUM CLAD WINDOW SYSTEM JELDWEN WINDOW OR EQ. DARK BRONZE
	LOCATION: NOTES:	GLASS - 1" INSULATED LOW 'E' GLAZING UNIT WINDOWS
M-1	TYPE: MANUF: COLOR:	BREAK METAL TRIM & COPING DARK BRONZE
	LOCATION: NOTES:	AS SHOWN
M-2	TYPE: MANUF: COLOR:	BREAK METAL TRIM & COPING DARK BRONZE
	LOCATION: NOTES:	ENTRY CONNECTION
S-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	30 YEAR ARCHITECTURAL SHINGLE GAF OR EQ. GREY - TO MATCH ADJACENT BUILDING
W-1	TYPE: MANUF: COLOR: LOCATION: NOTES:	CLEAR WESTERN RED CEDAR CLEAR SEAL ENTRY PLAZA COLUMNS

Notes:

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5. PROVIDE SEALANTS BETWEEN DISSIMILAR MATERIALS. MATCH COLOR TO ADJACENT WALL MATERIAL, TYP.
6. PATCH/REPAIR ALL DAMAGED MATERIALS AND TRIM AS REQUIRED FOR A UNIFORM, LIKE-NEW APPEARANCE.
7. COORDINATE CONTROL JOINTS W/ ARCHITECT PRIOR TO CONSTRUCTION
8. COORD. W/ LANDSCAPE ARCHITECT DWGS. FOR GENERAL GRADING & FINAL SURFACE ELEVATIONS.



2 West
A202 SCALE: 1/8" = 1'-0"



1 South
A202 SCALE: 1/8" = 1'-0"

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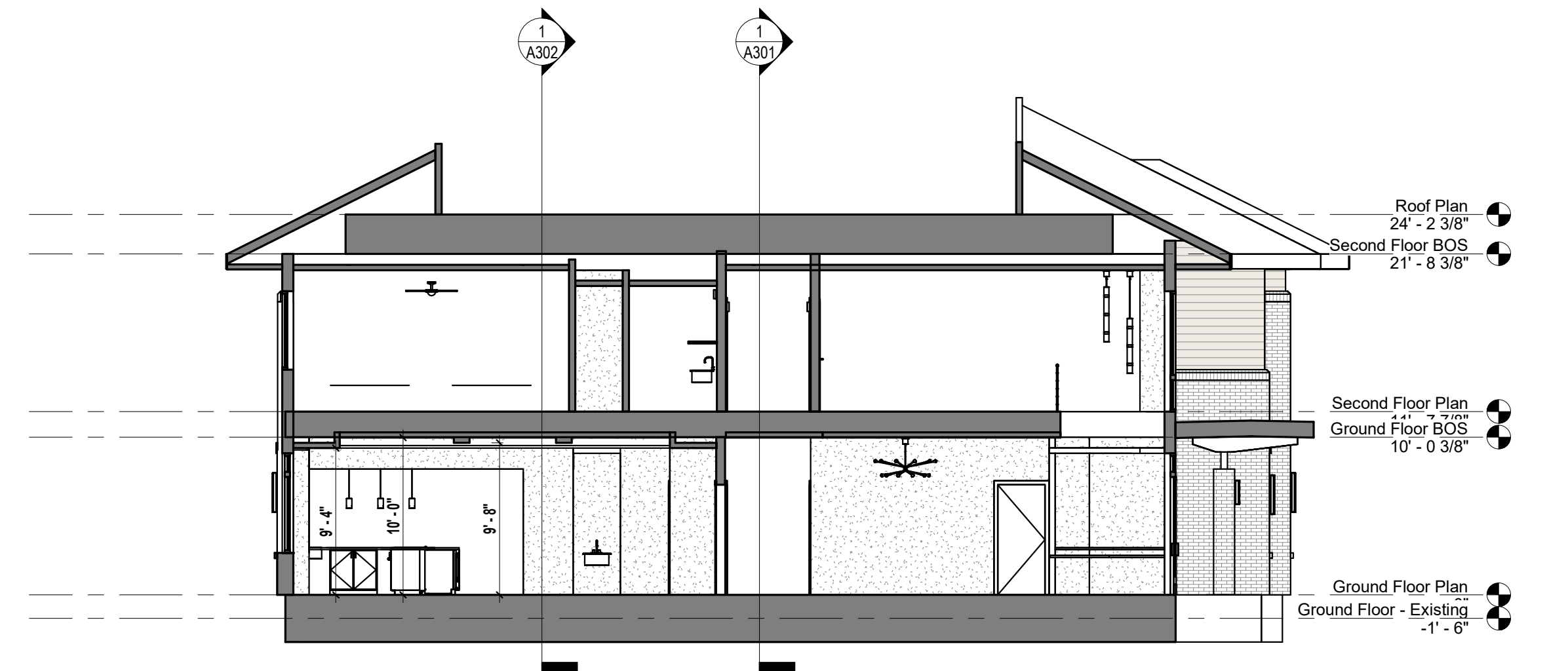
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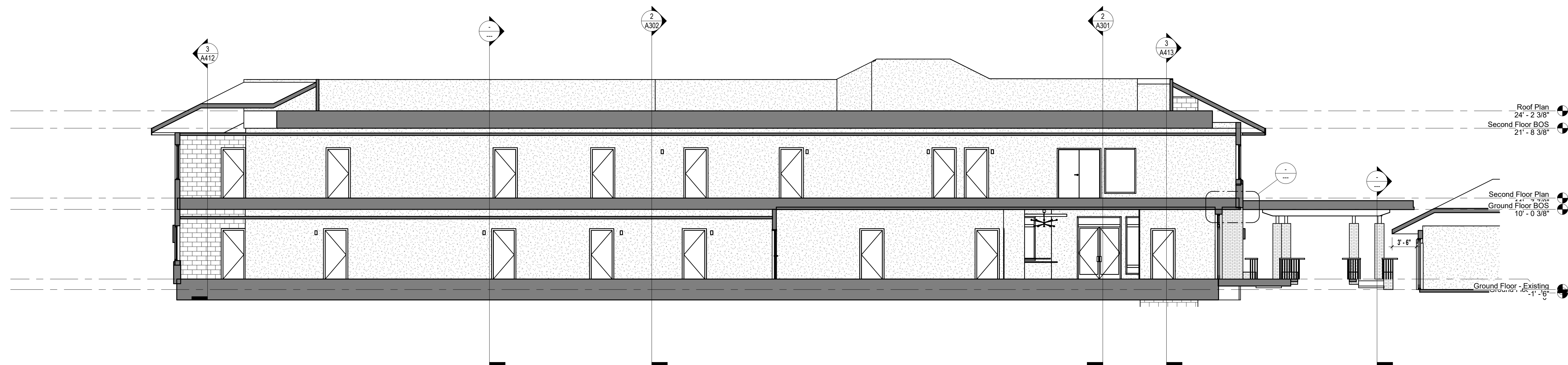
Building Sections

SHEET NUMBER

A301



2 Building Section 2
A301 SCALE: 1/8" = 1'-0"



1 Building Section 1
A301 SCALE: 1/8" = 1'-0"

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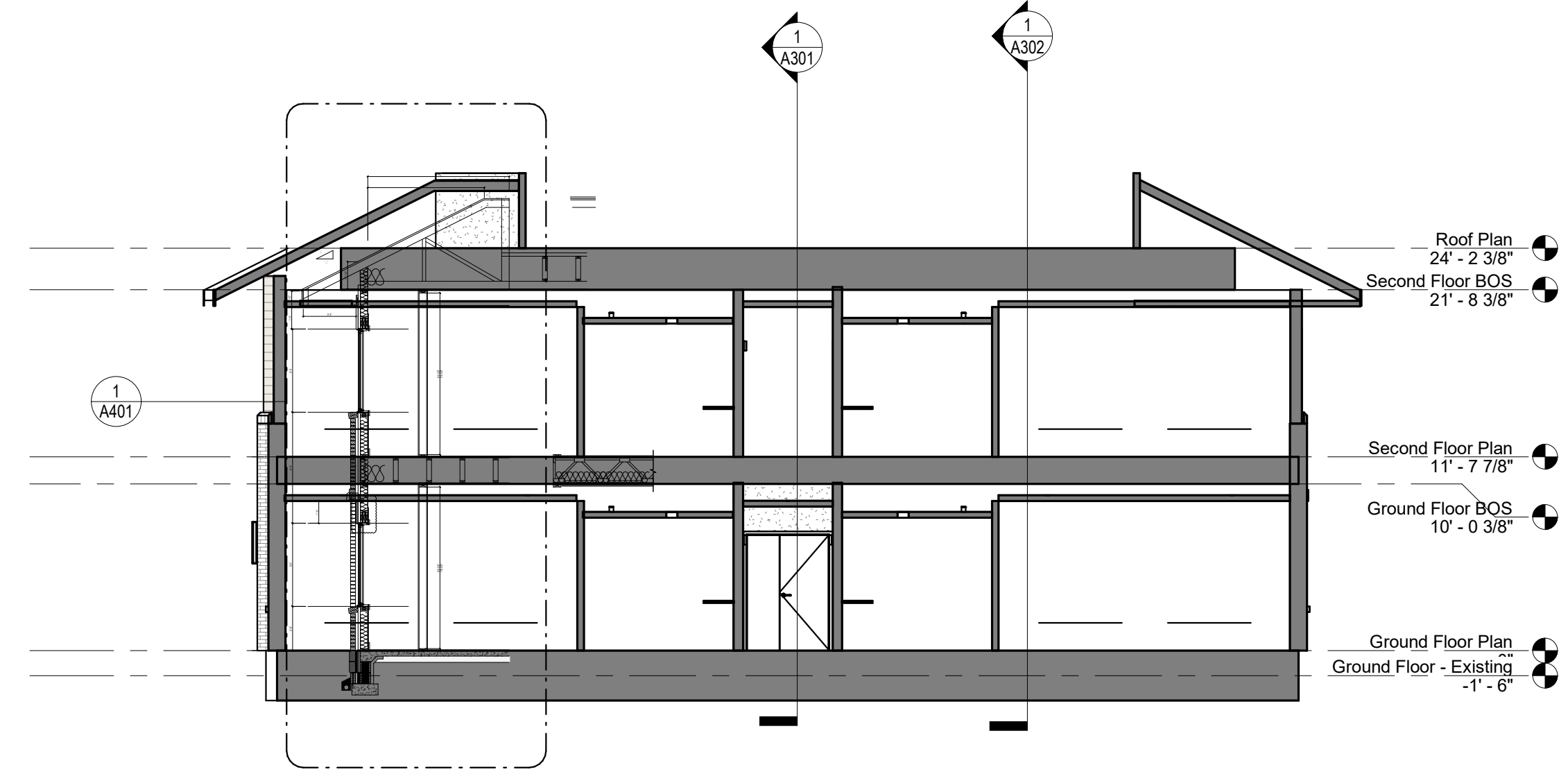
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Building Sections

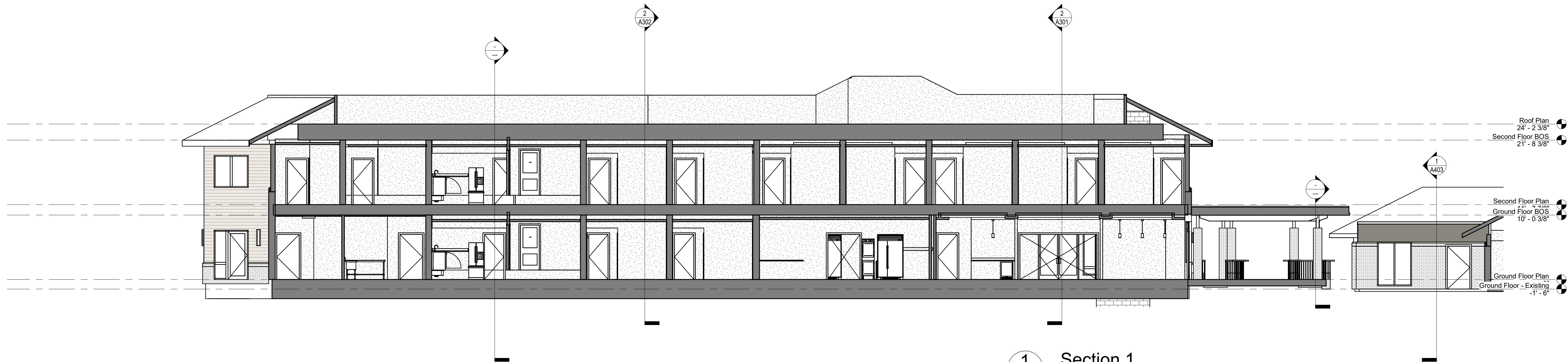
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A302

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2 Section 2
A302 SCALE: 1/8" = 1'-0"



1 Section 1
A302 SCALE: 1/8" = 1'-0"

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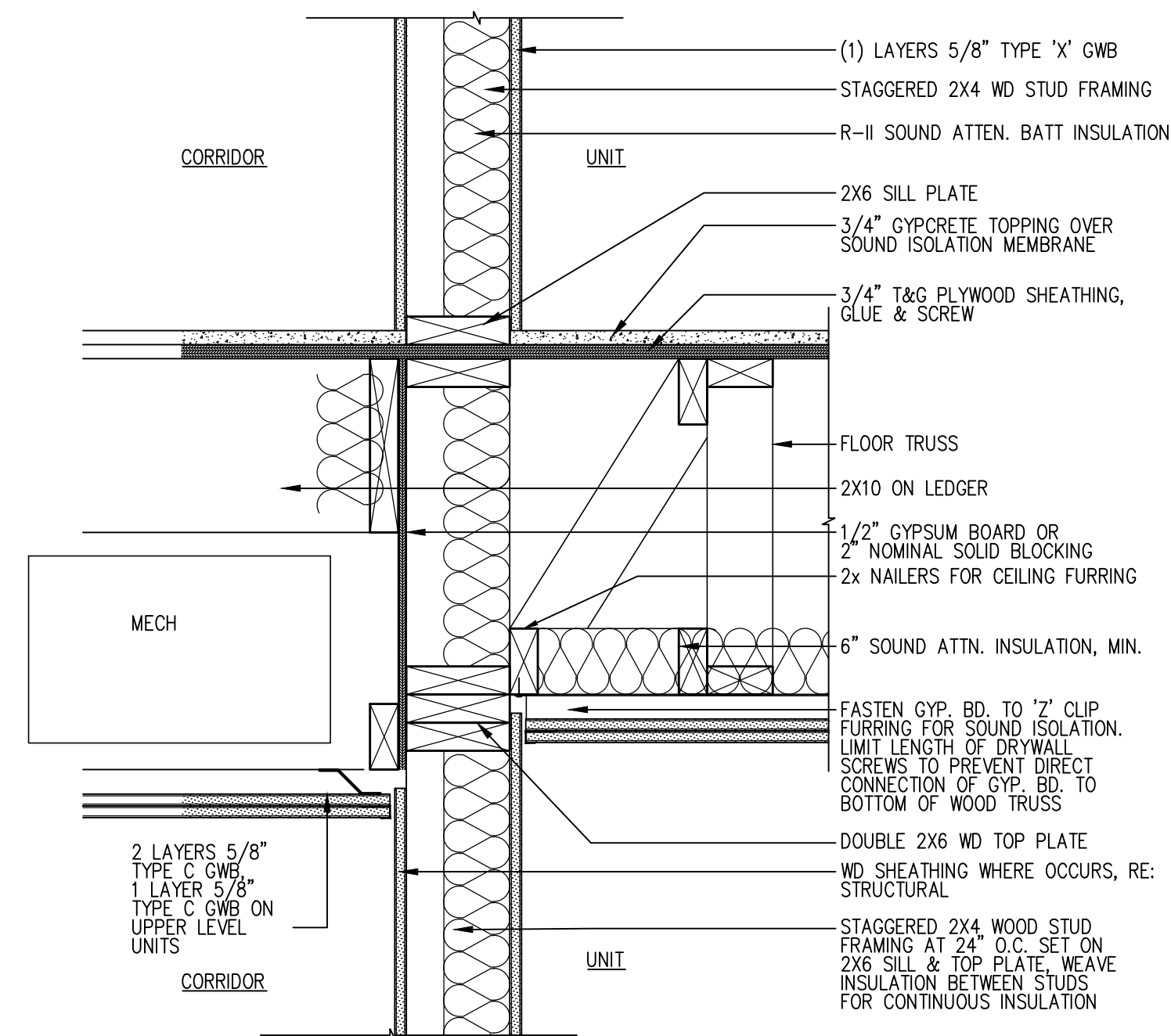
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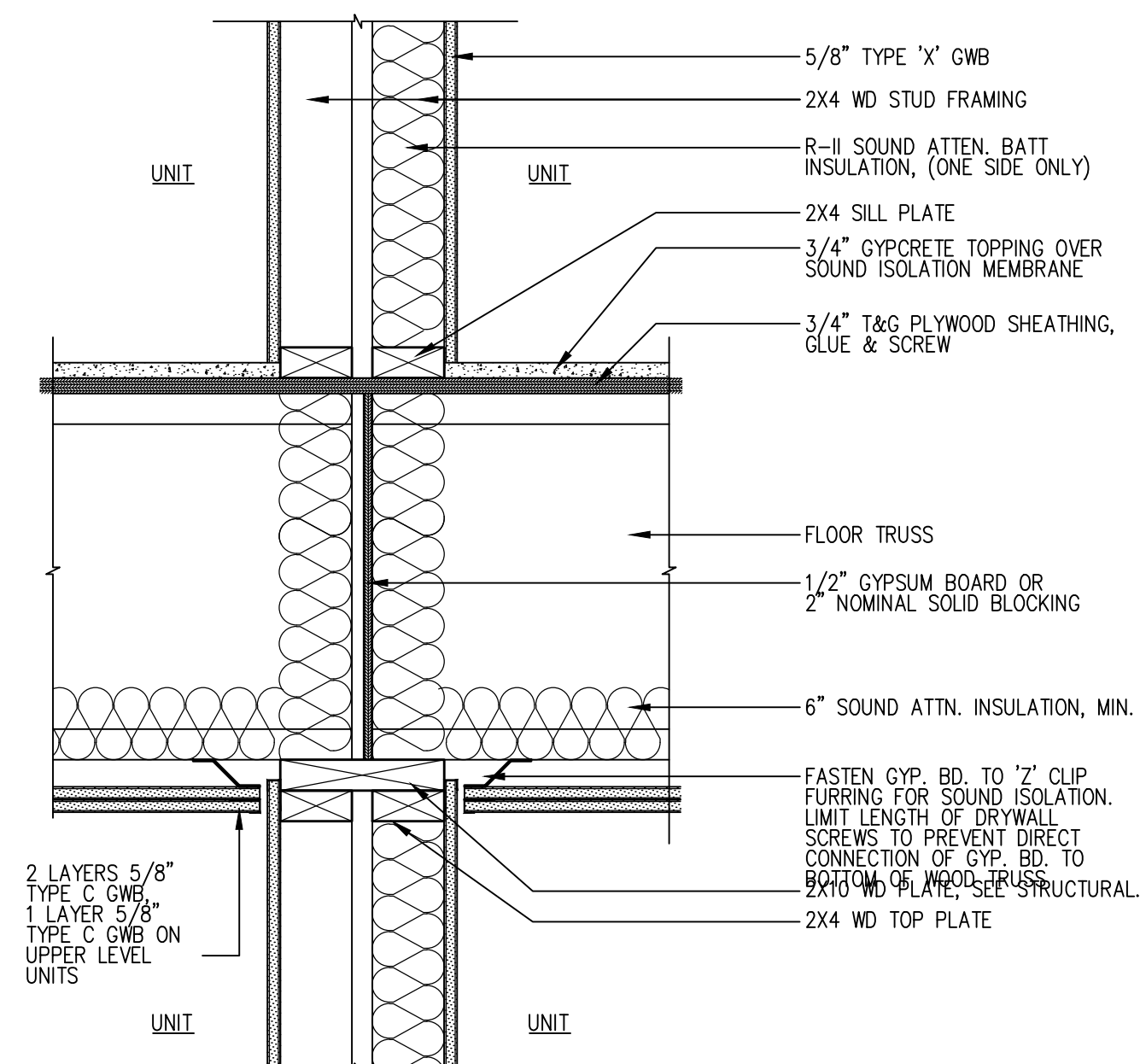
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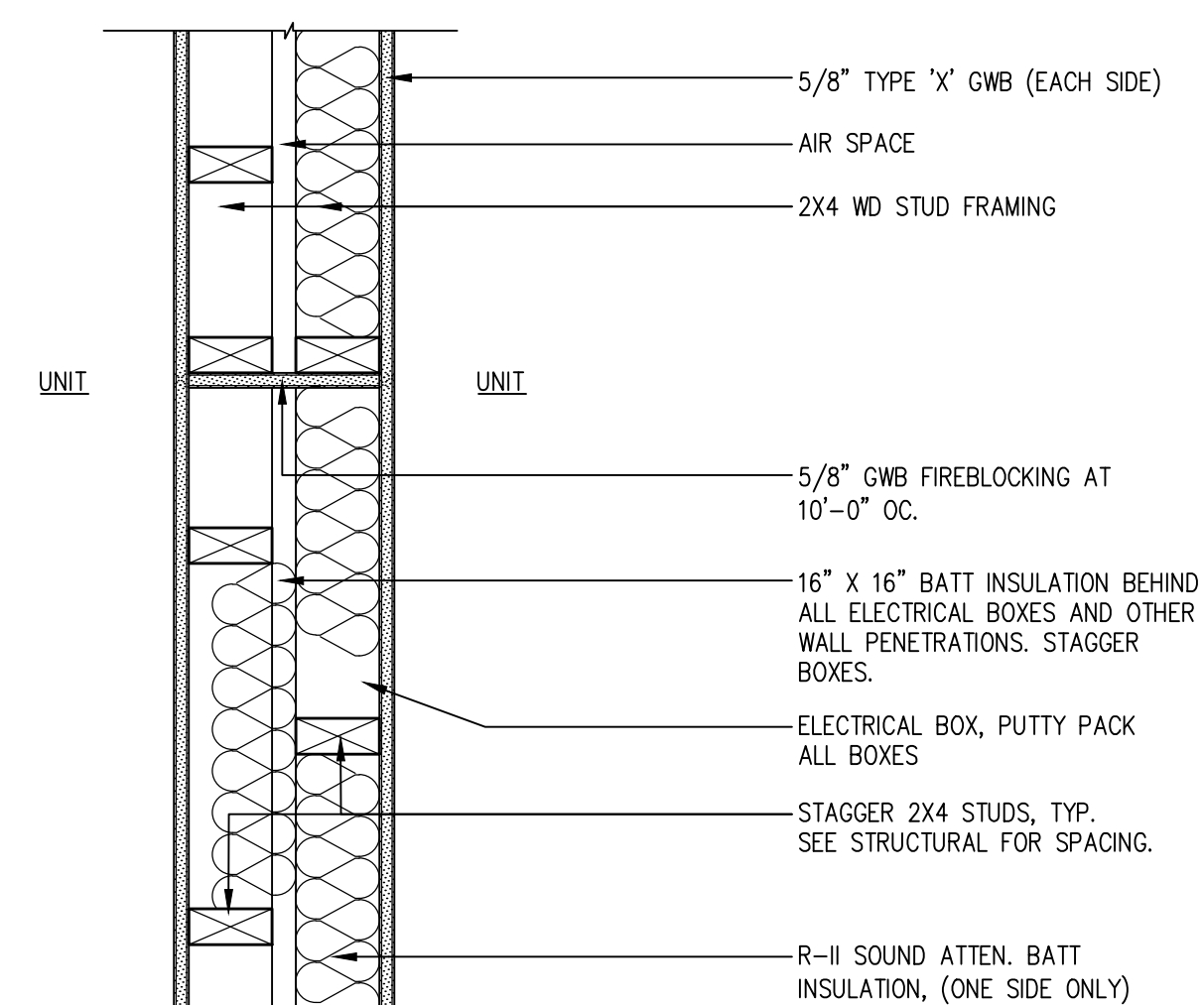
A401



4 Section Detail 30 Min. Corridor Separation @ Floor Ceiling
A401 SCALE: 1 1/2"=1'-0"



3 Section Detail 1-HR Tenant Separation @ Floor Ceiling
A401 SCALE: 1 1/2"=1'-0"

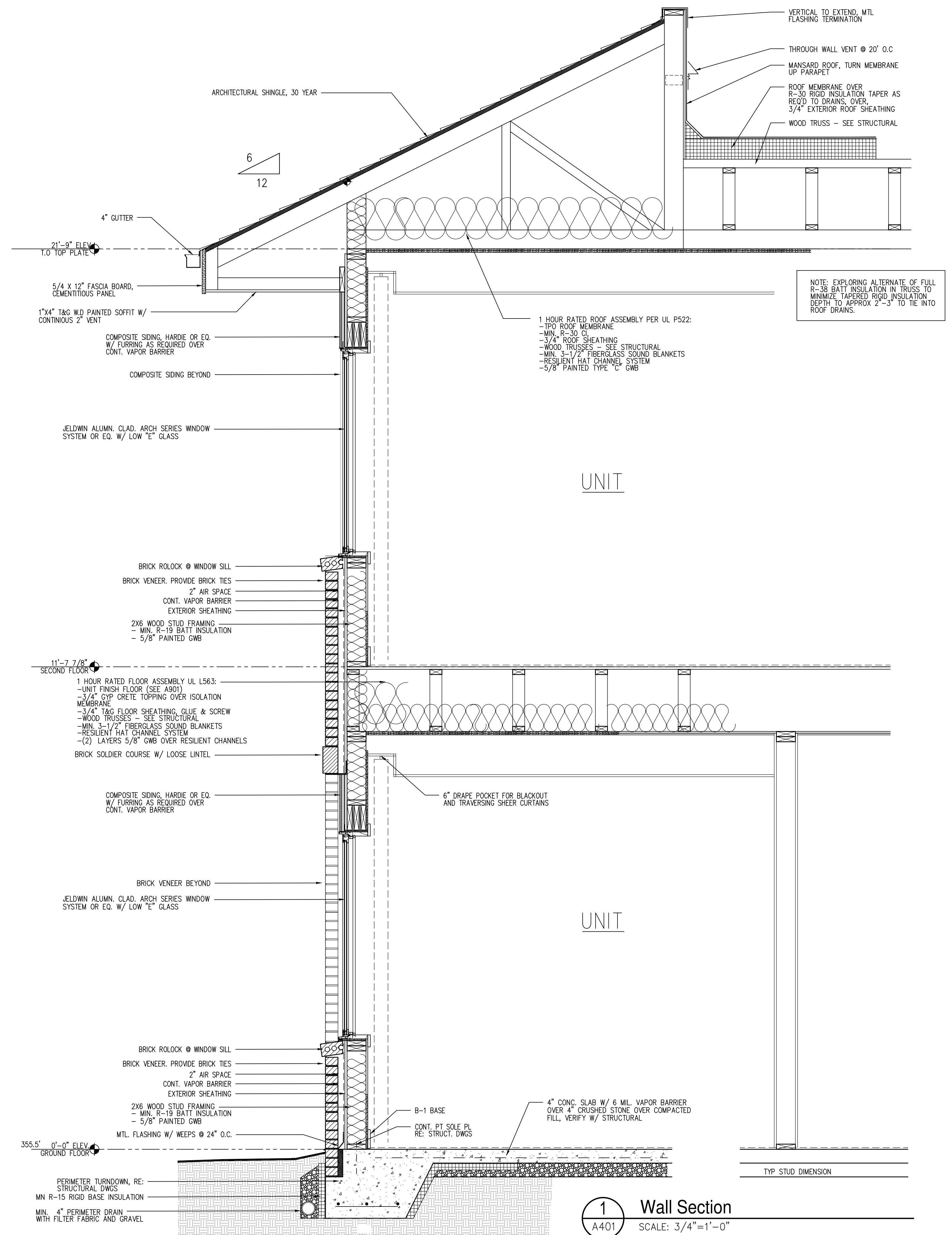


2

Plan Detail

A401
SCALE: 1 1/2"=1'-0"

1-HR Tenant Separation



1 Wall Section
A401 SCALE: 3/4"=1'-0"

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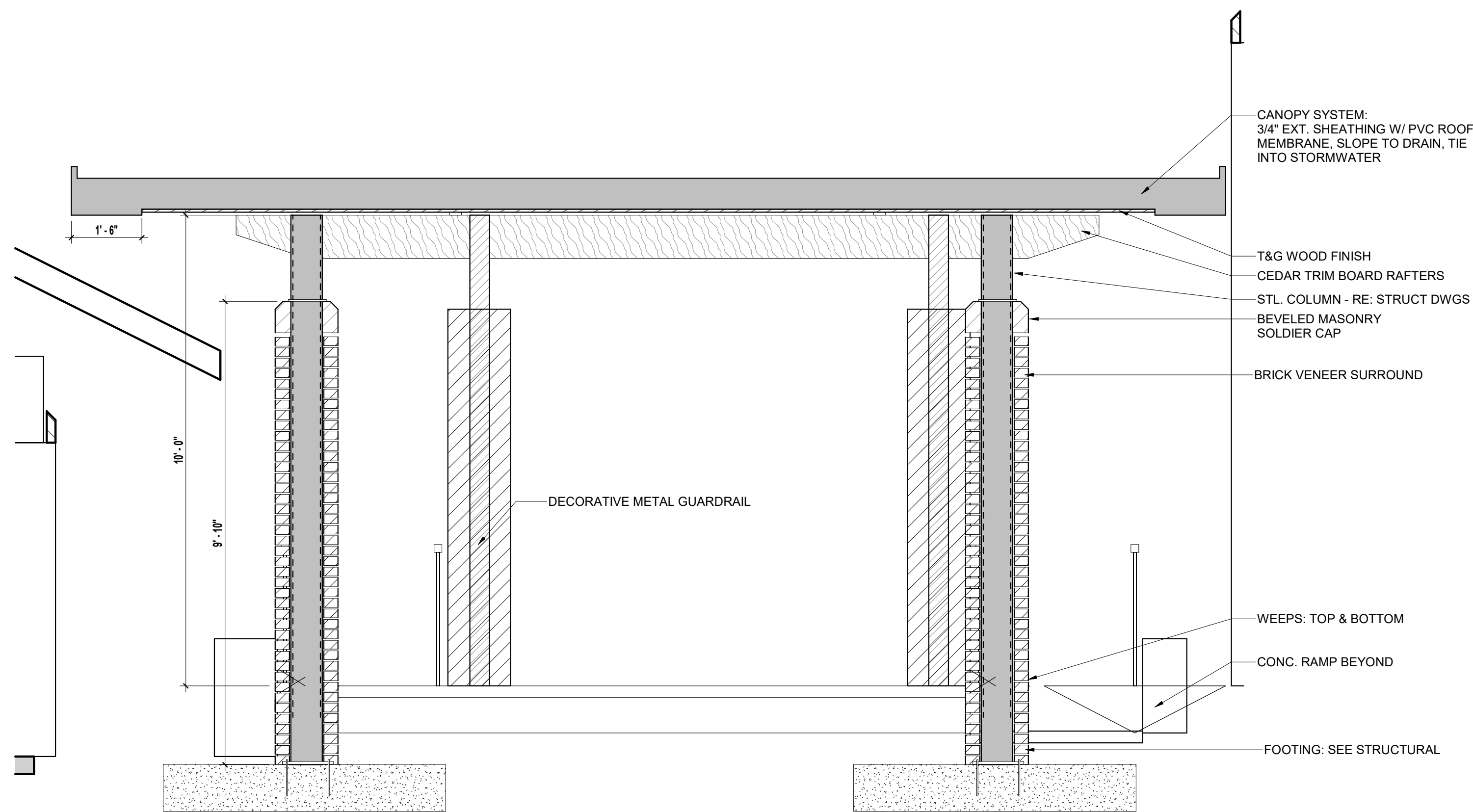
Canopy Drawings

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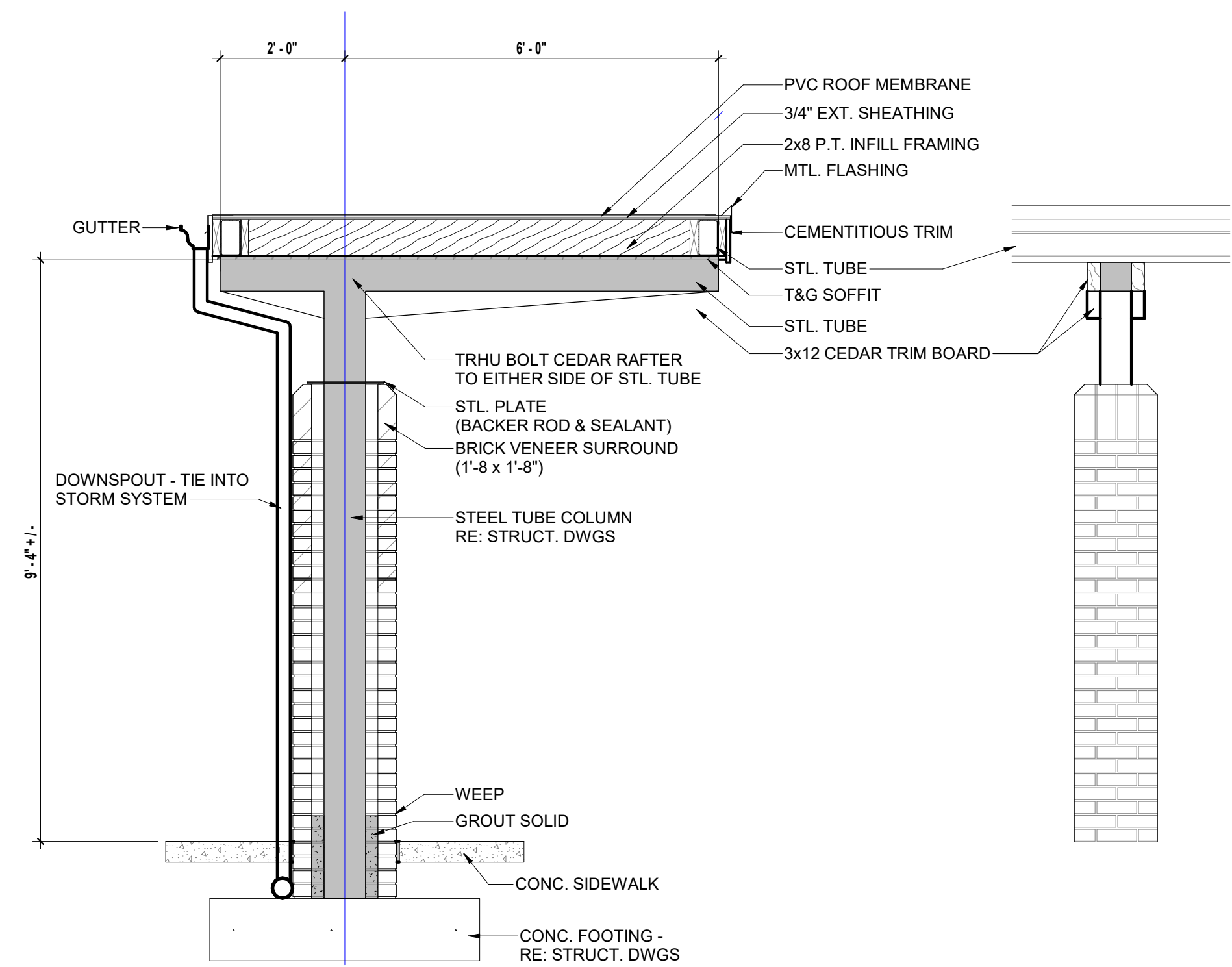
A402

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2 Patio Canopy Section
SCALE: 1/2" = 1'-0"



1 Canopy Section
SCALE: 1/2" = 1'-0"

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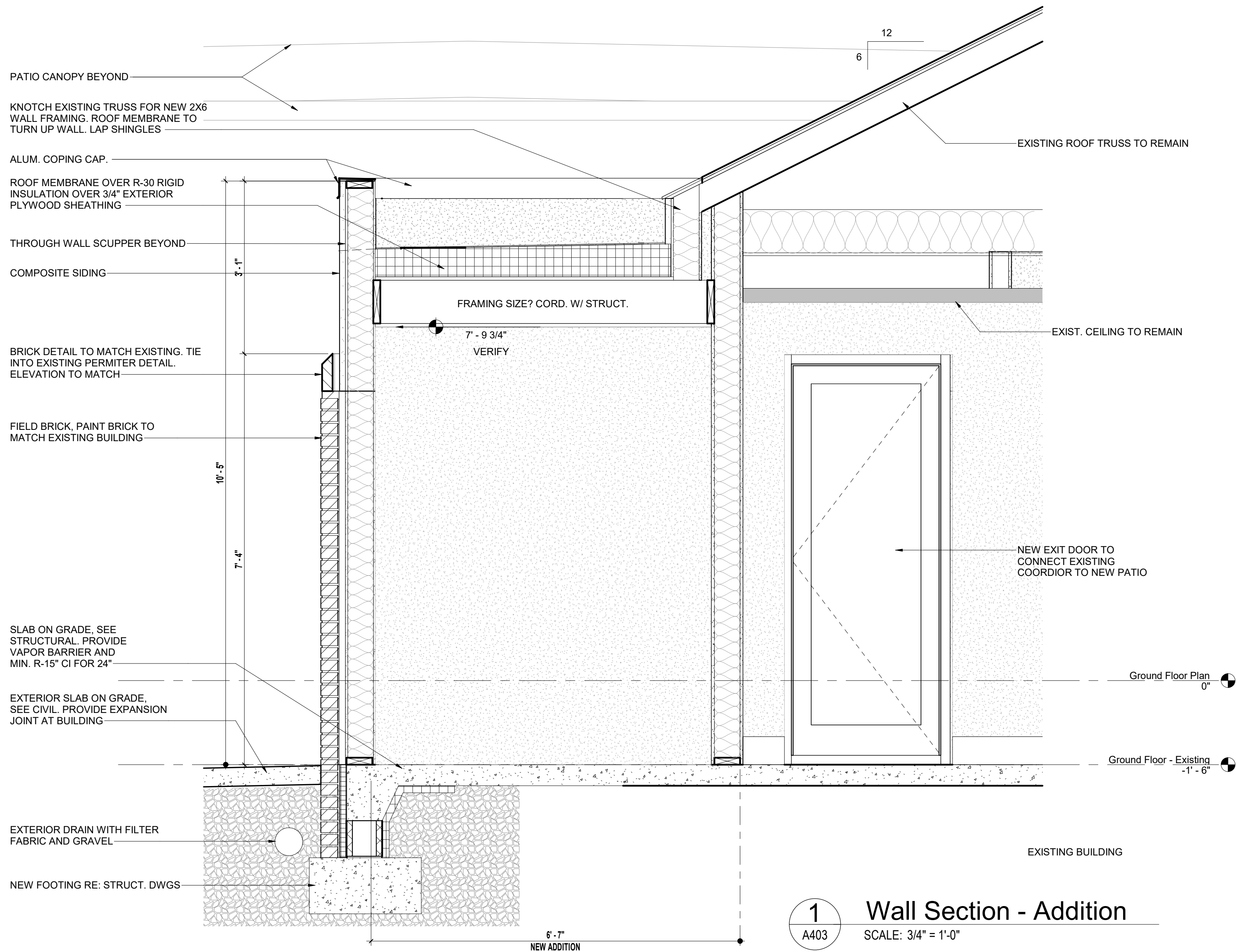
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SHEET TITLE

Wall Sections

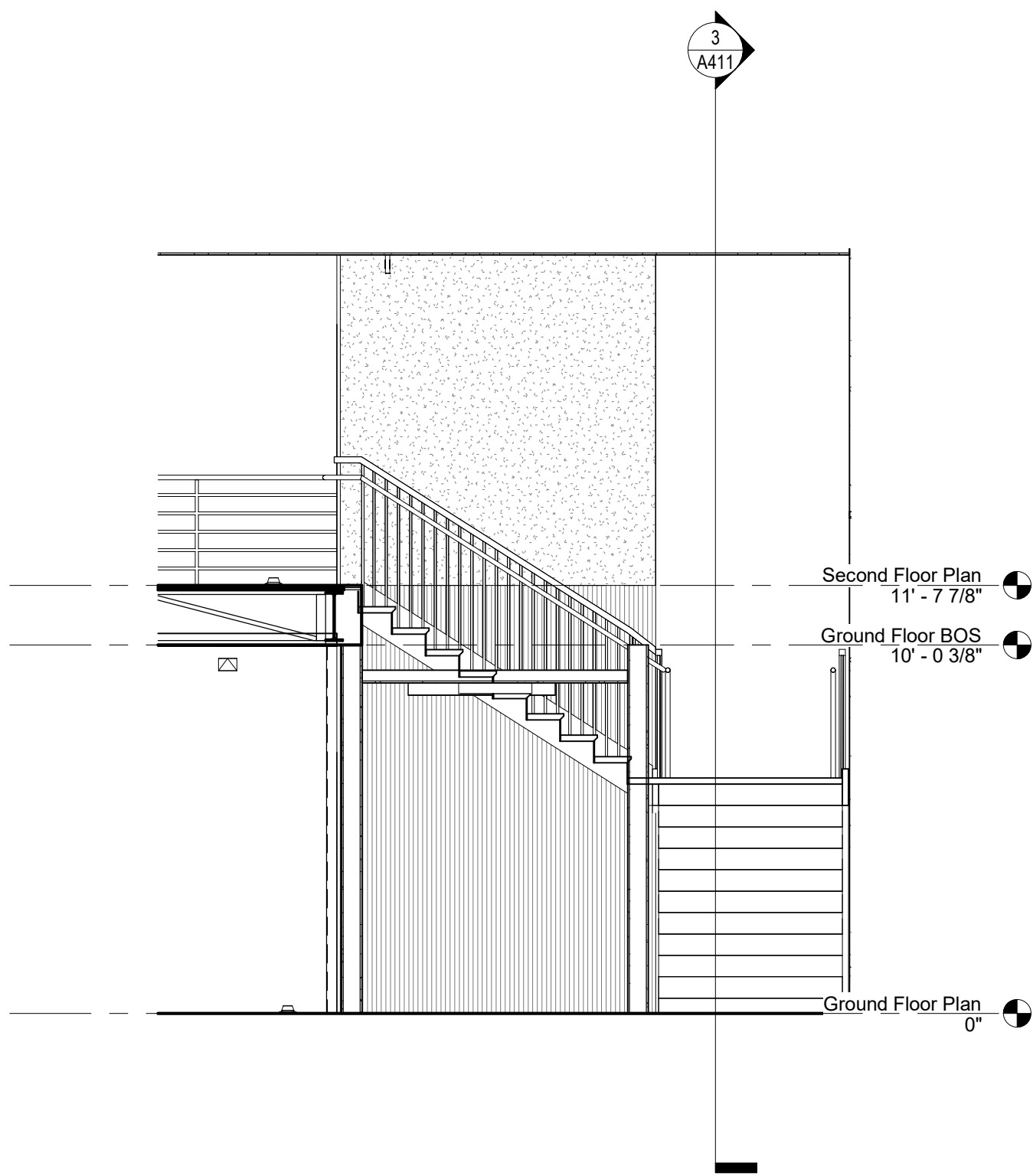
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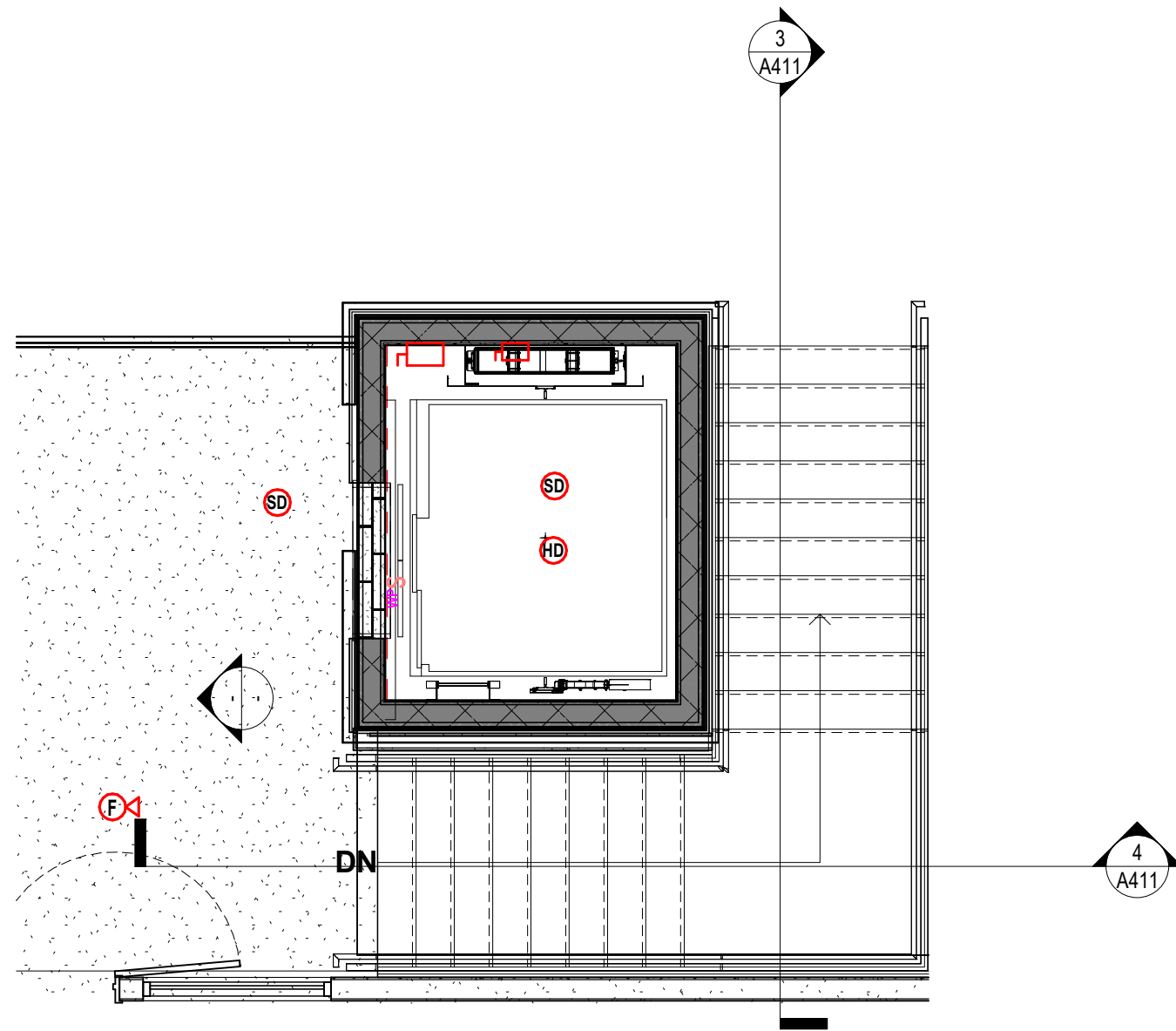


1 Wall Section - Addition

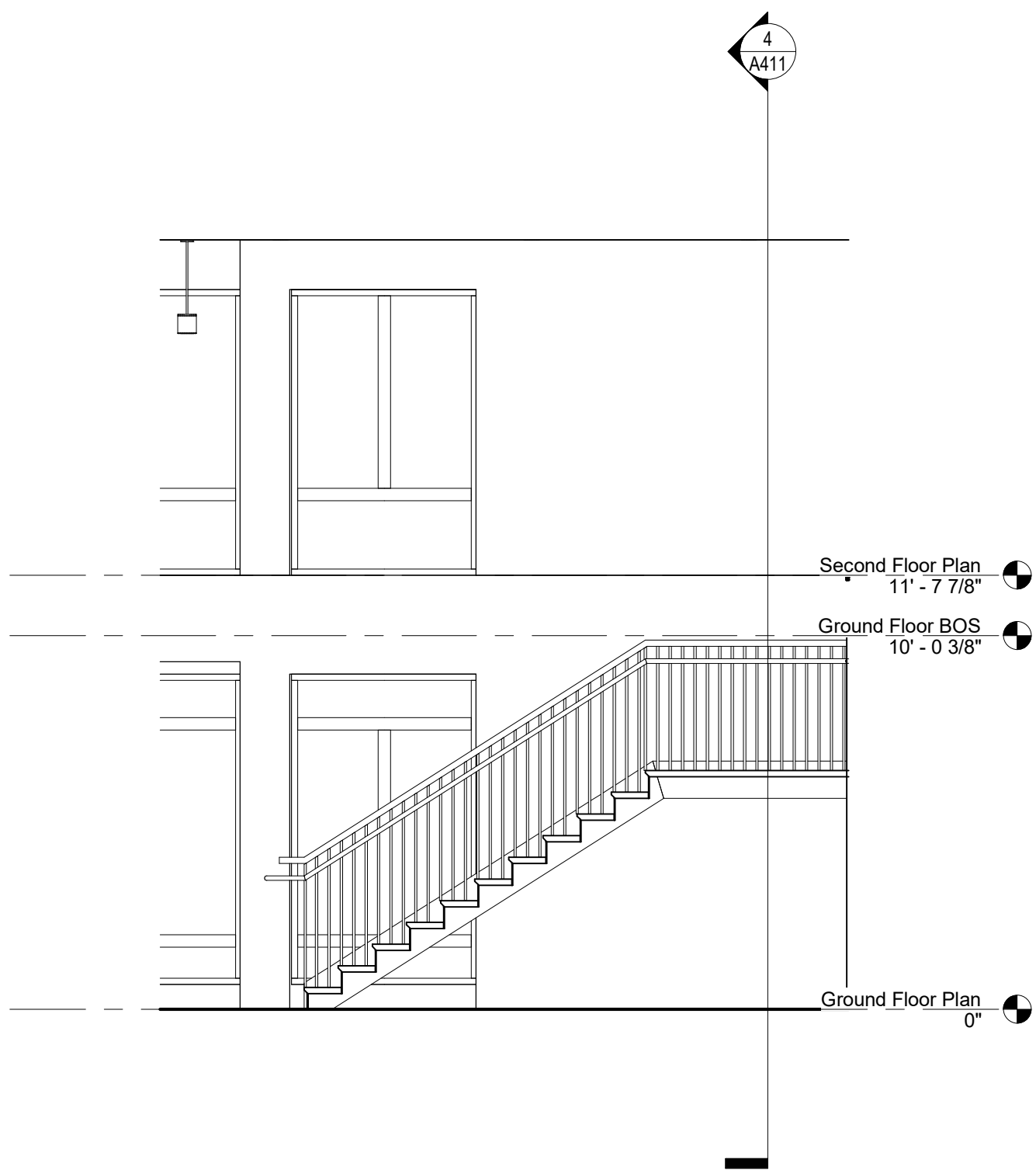
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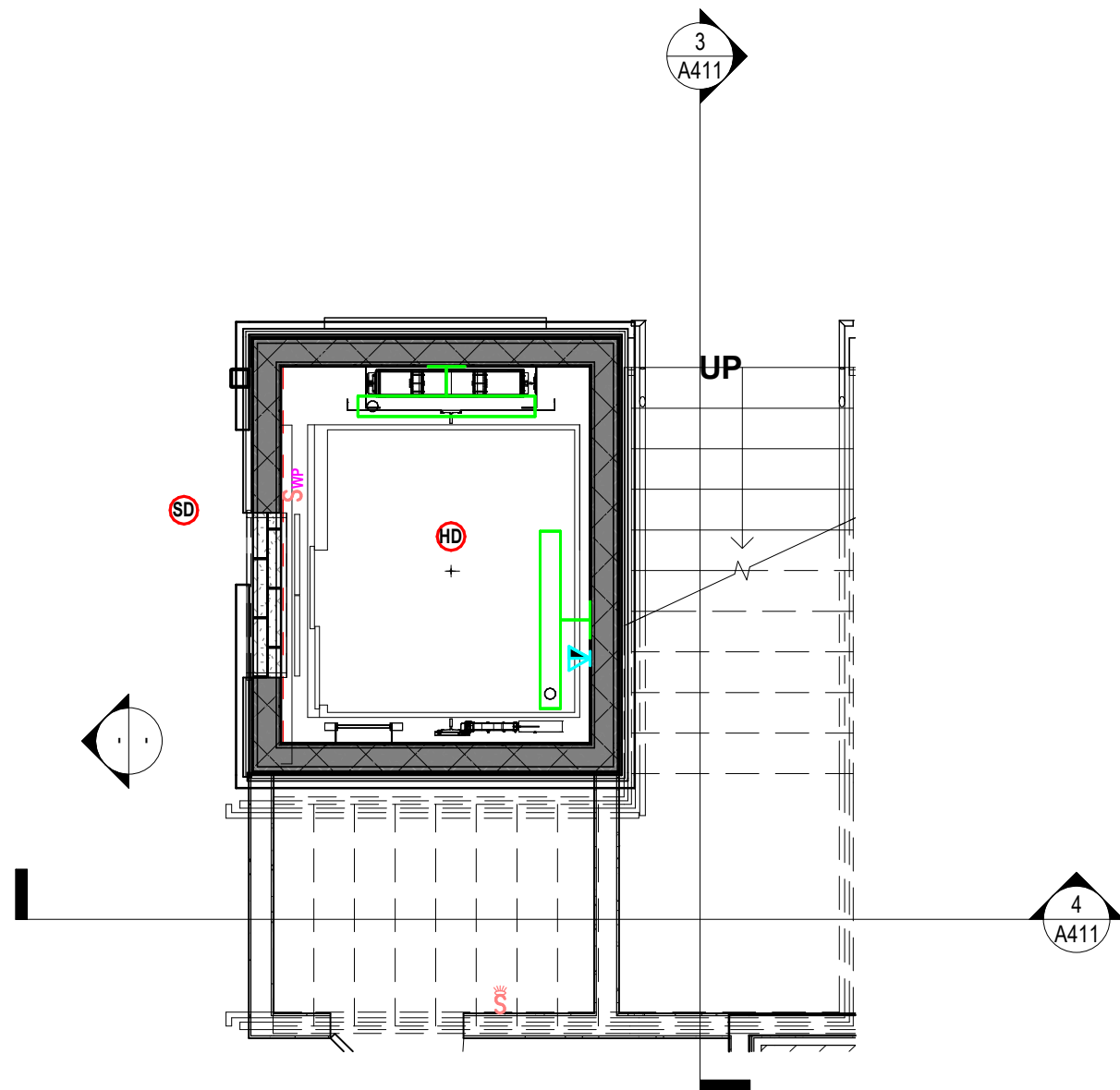
4 Lobby Stair Section 2
A411 SCALE: 1/4" = 1'-0"



2 Lobby Stair Plan - Second Floor
A411 SCALE: 1/4" = 1'-0"



3 Lobby Stair Section 1
A411 SCALE: 1/4" = 1'-0"



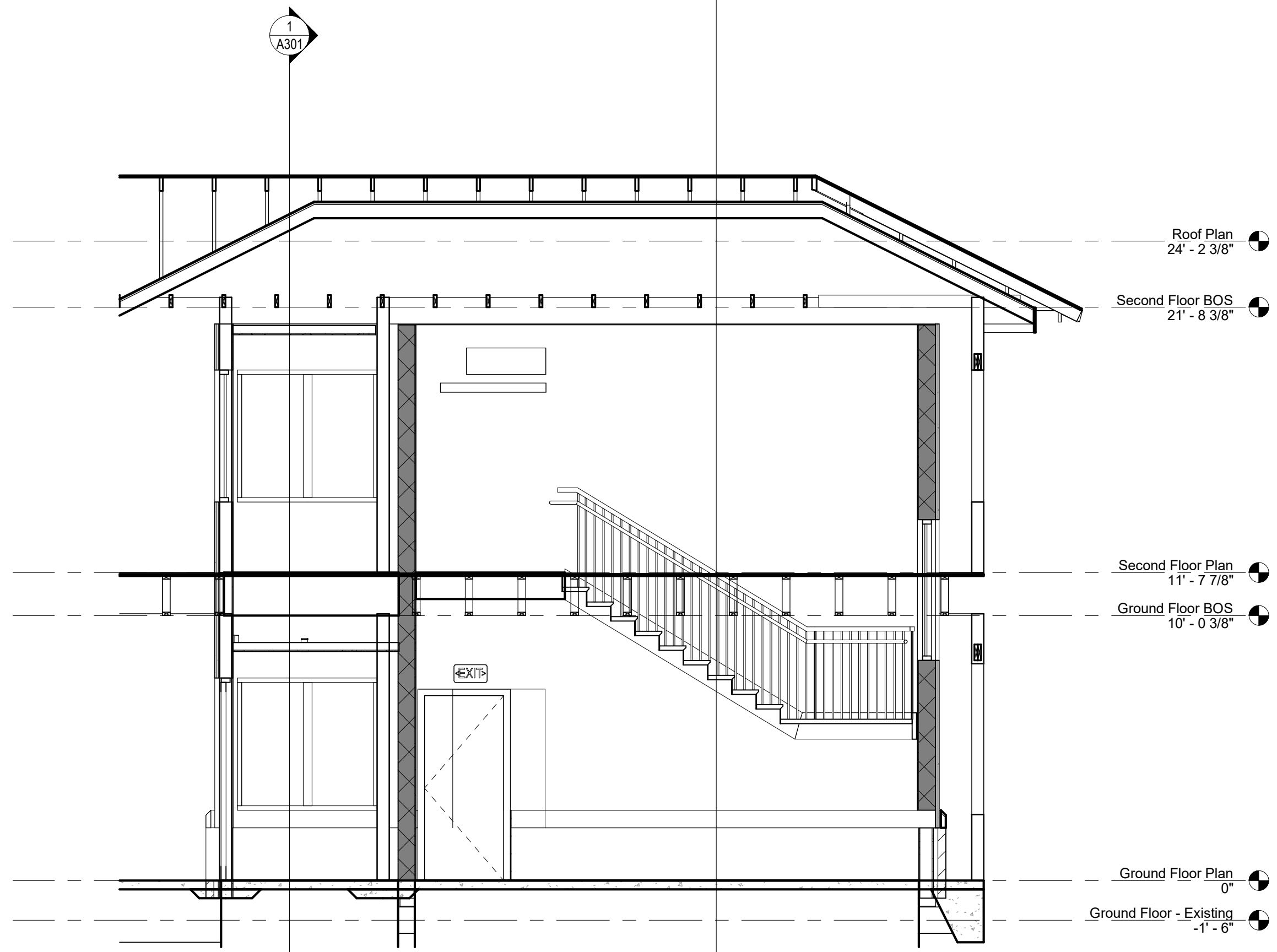
1 Lobby Stair Plan - Ground Floor
A411 SCALE: 1/4" = 1'-0"

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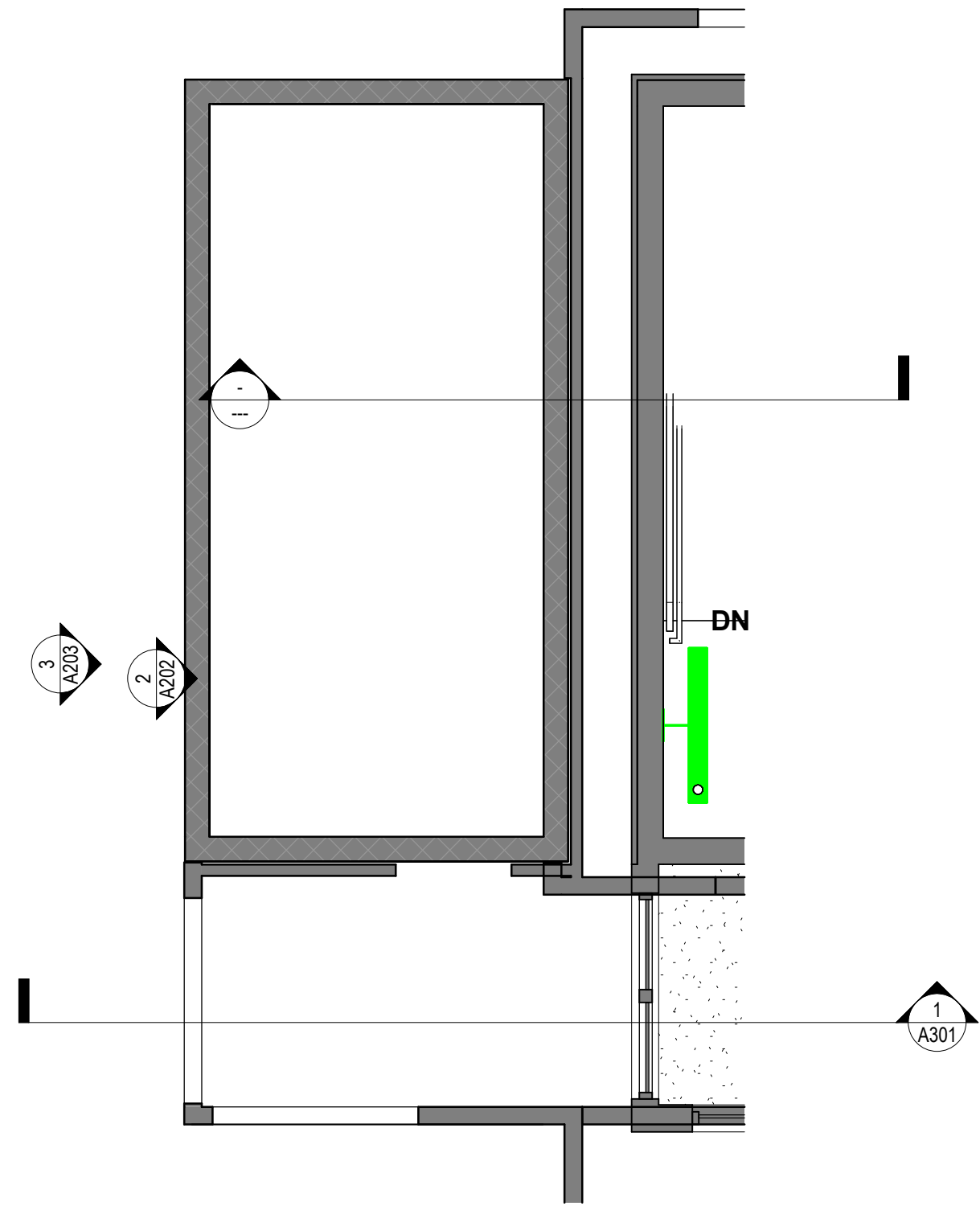
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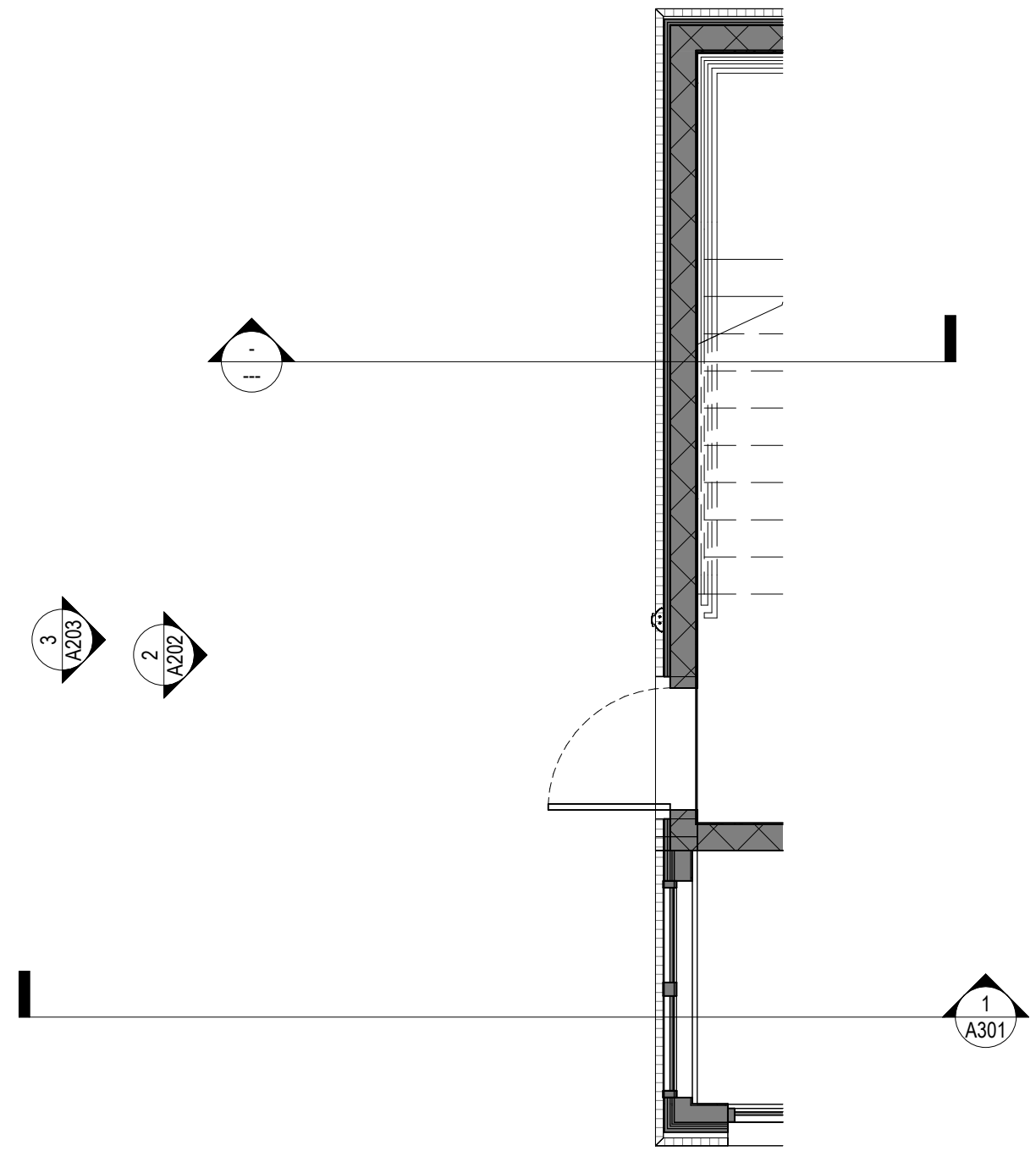
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2625 Pickett Rd., Durham, NC 27707
DESIGN DEVELOPMENT VE



3 Exit Stair Section
SCALE: 1/4" = 1'-0"



2 Exit Stair Plan - Second Floor
SCALE: 1/4" = 1'-0"



1 Exit Stair Plan - Ground Floor
SCALE: 1/4" = 1'-0"

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CARING HOUSE EXPANSION
Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707
DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

Stair Plans &
Sections

SHEET NUMBER

A412

Not For
Construction

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REVISION SCHEDULE

REV DATE	REV #	REVISION DESCRIPTION
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Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707
DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

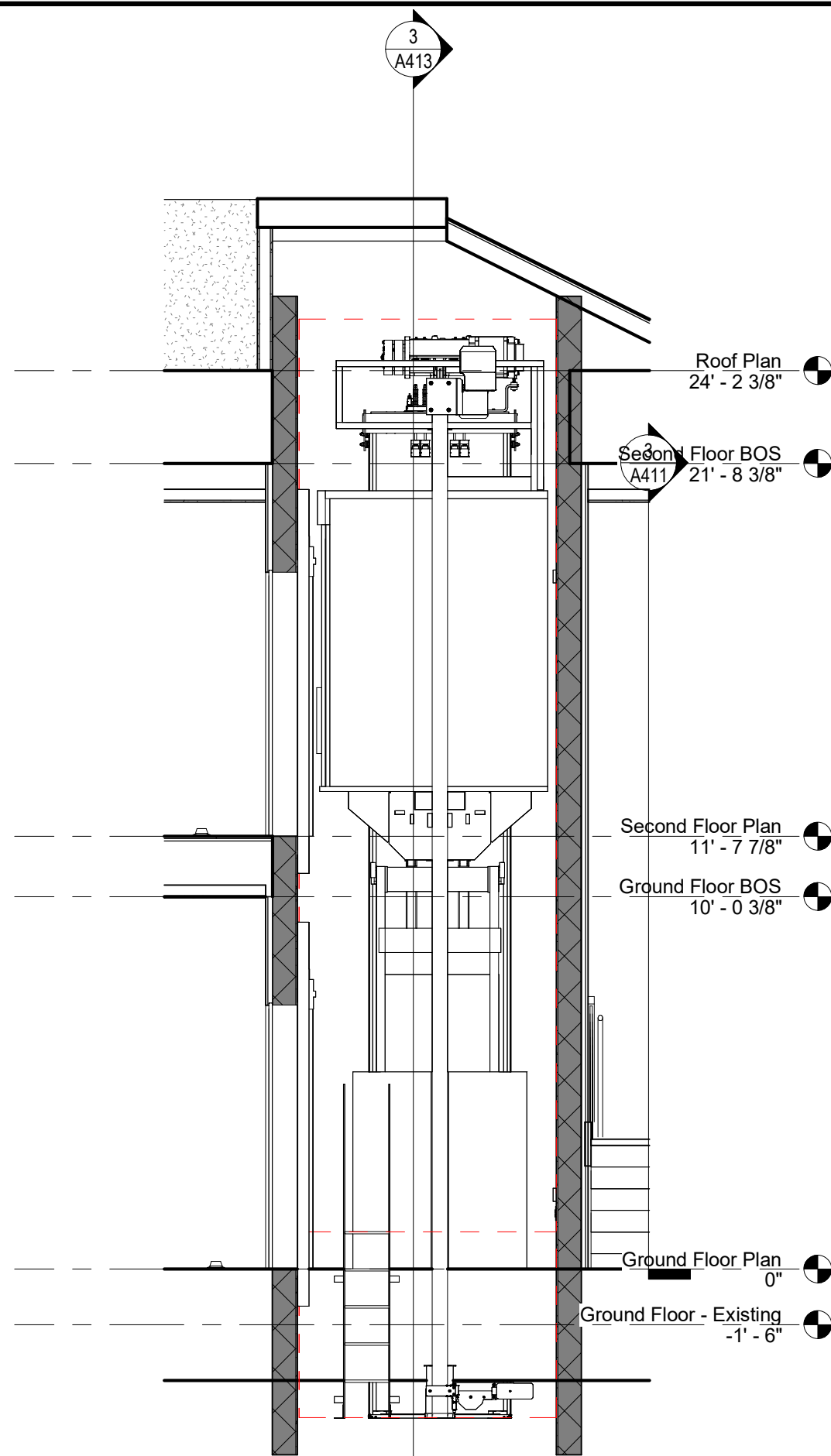
Elevator Plans &
Sections

SHEET NUMBER

A413

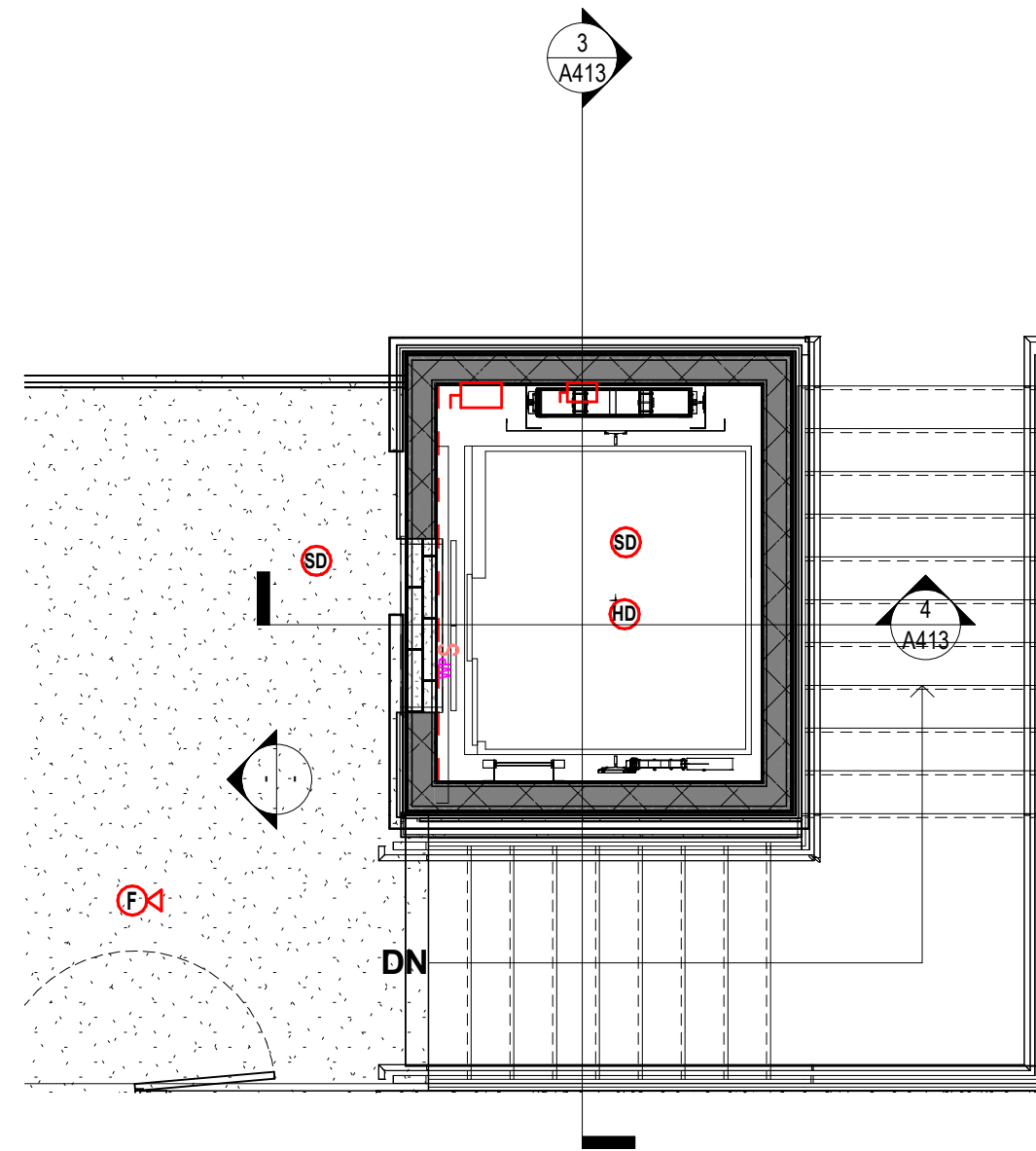
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3/14/2025 3:42:04 PM



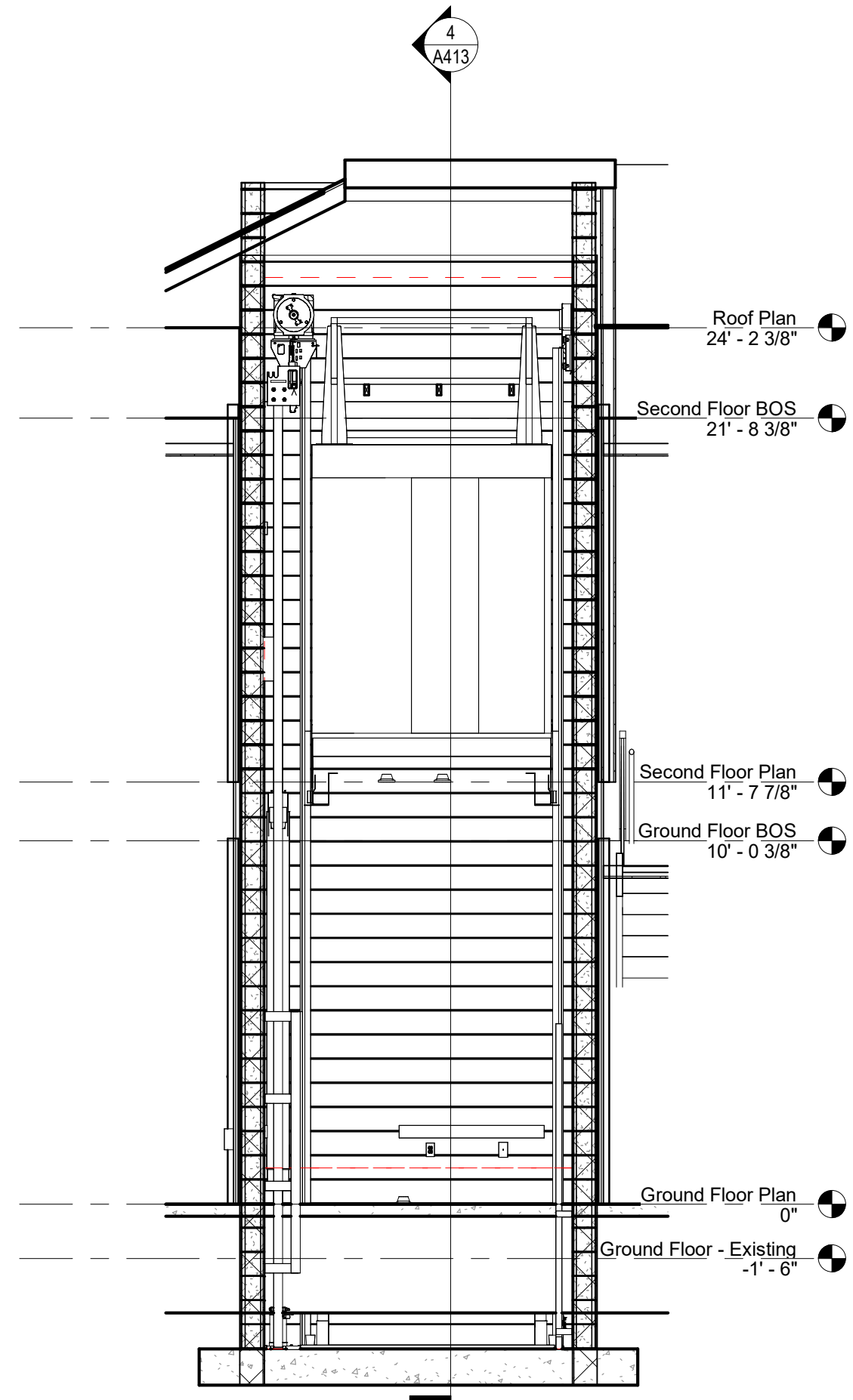
4 Elevator Section 2

SCALE: 1/4" = 1'-0"



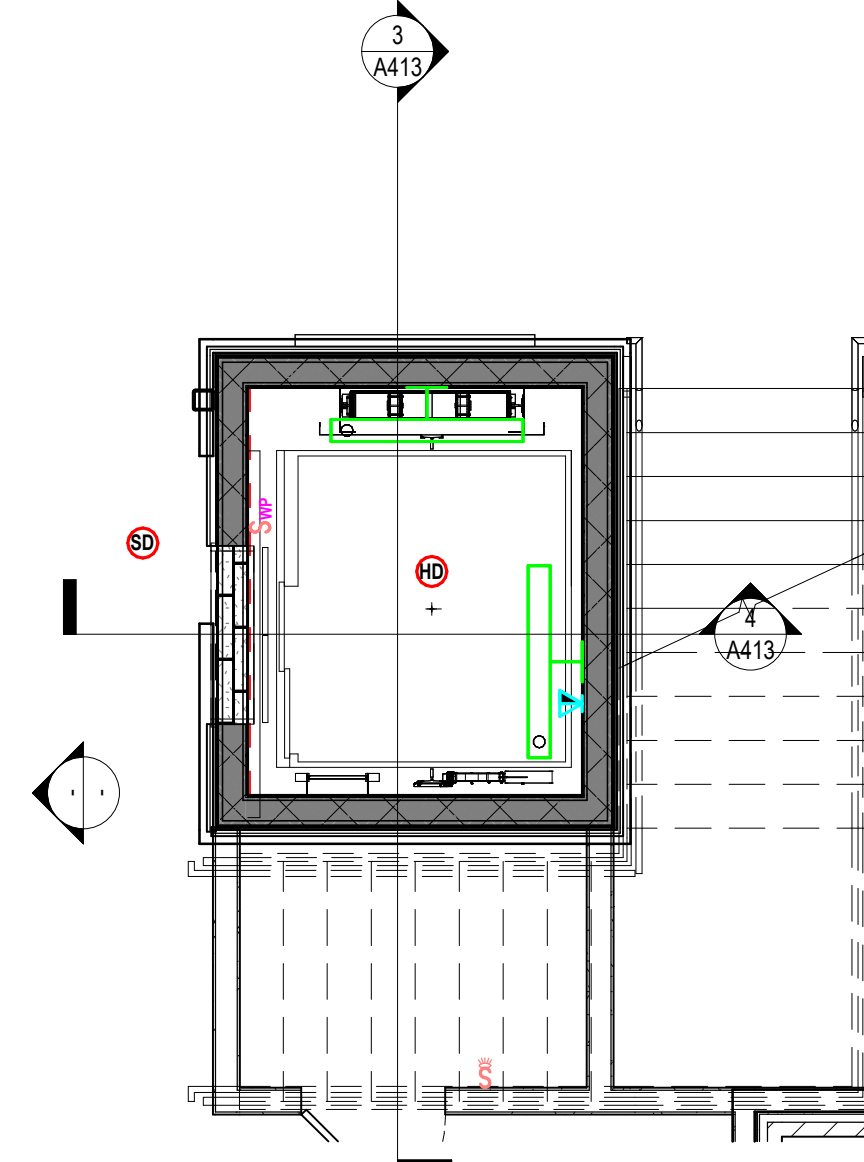
2 Lobby Elevator Plan - Second Floor

SCALE: 1/4" = 1'-0"



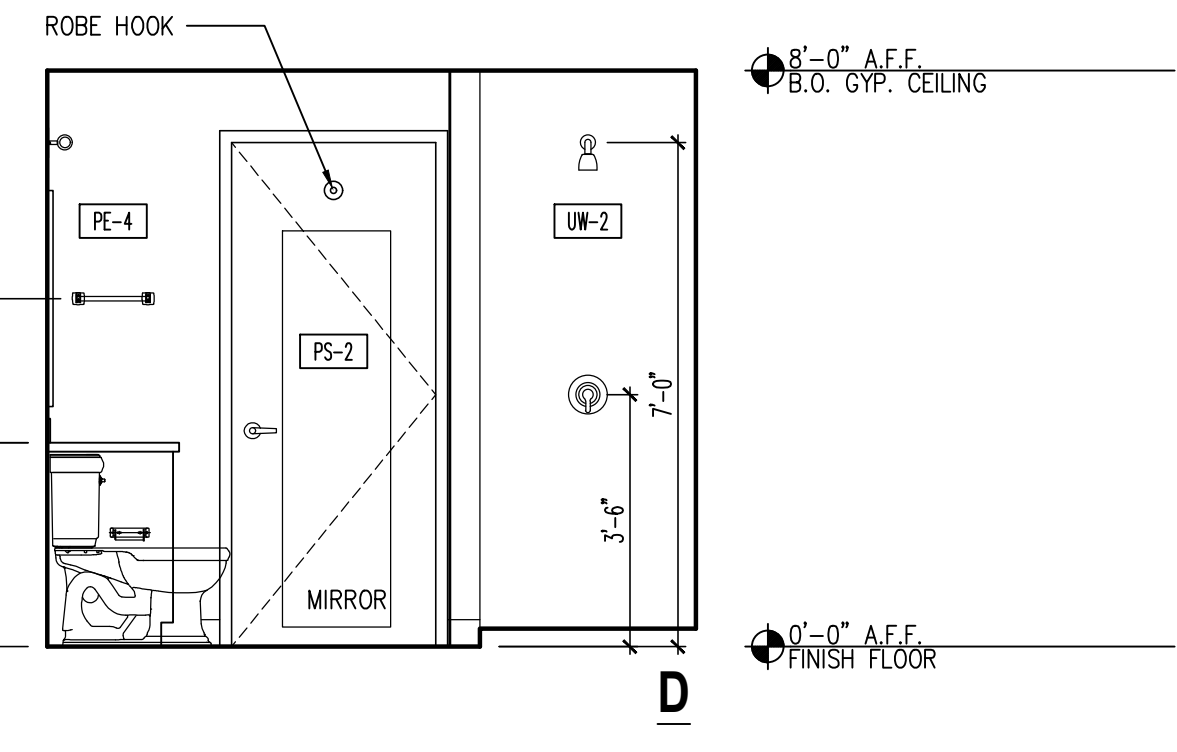
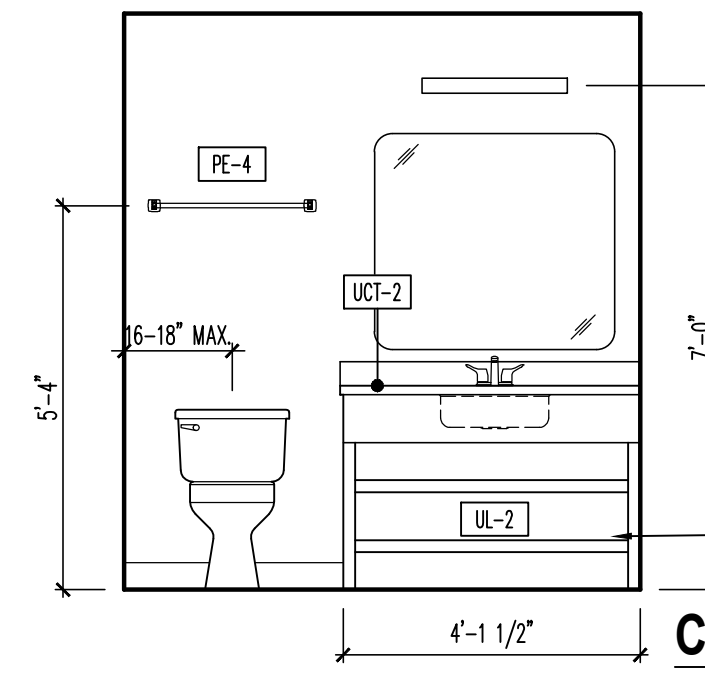
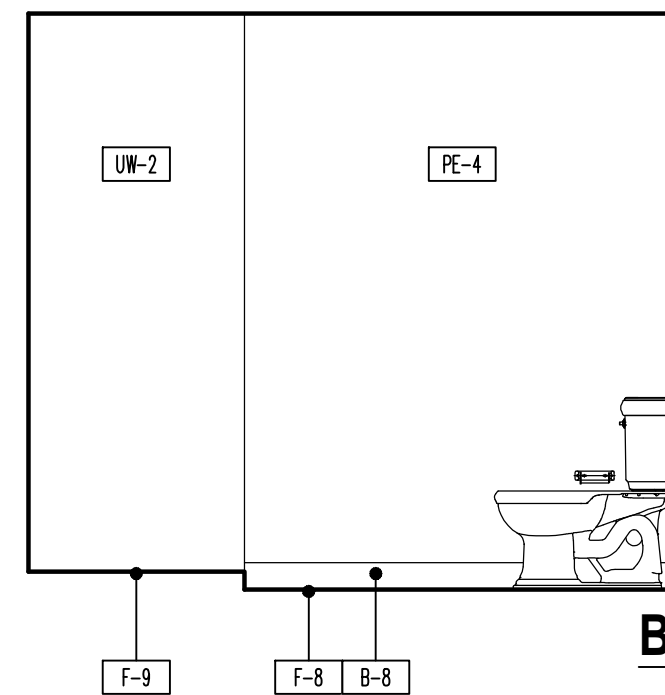
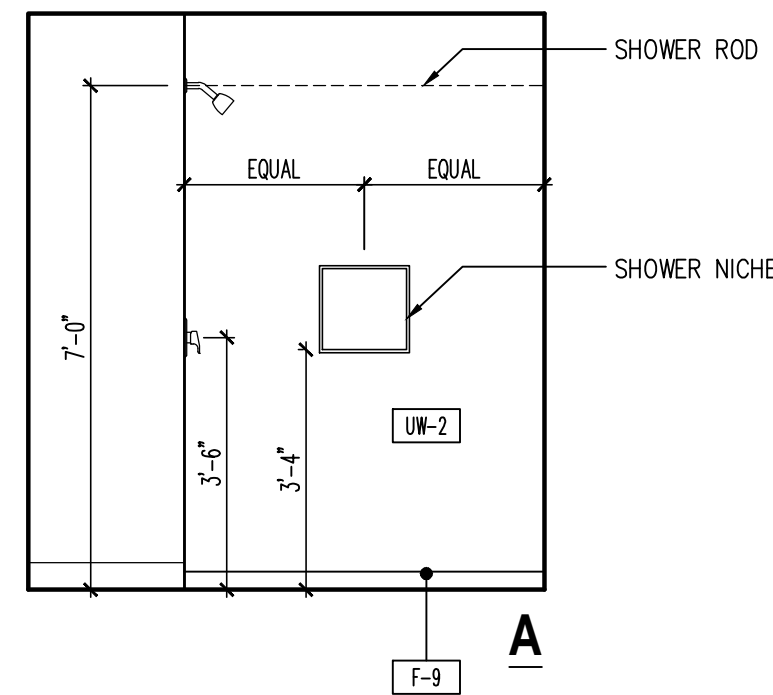
3 Elevator Section 1

SCALE: 1/4" = 1'-0"



1 Lobby Elevator Plan - Ground Floor

SCALE: 1/4" = 1'-0"

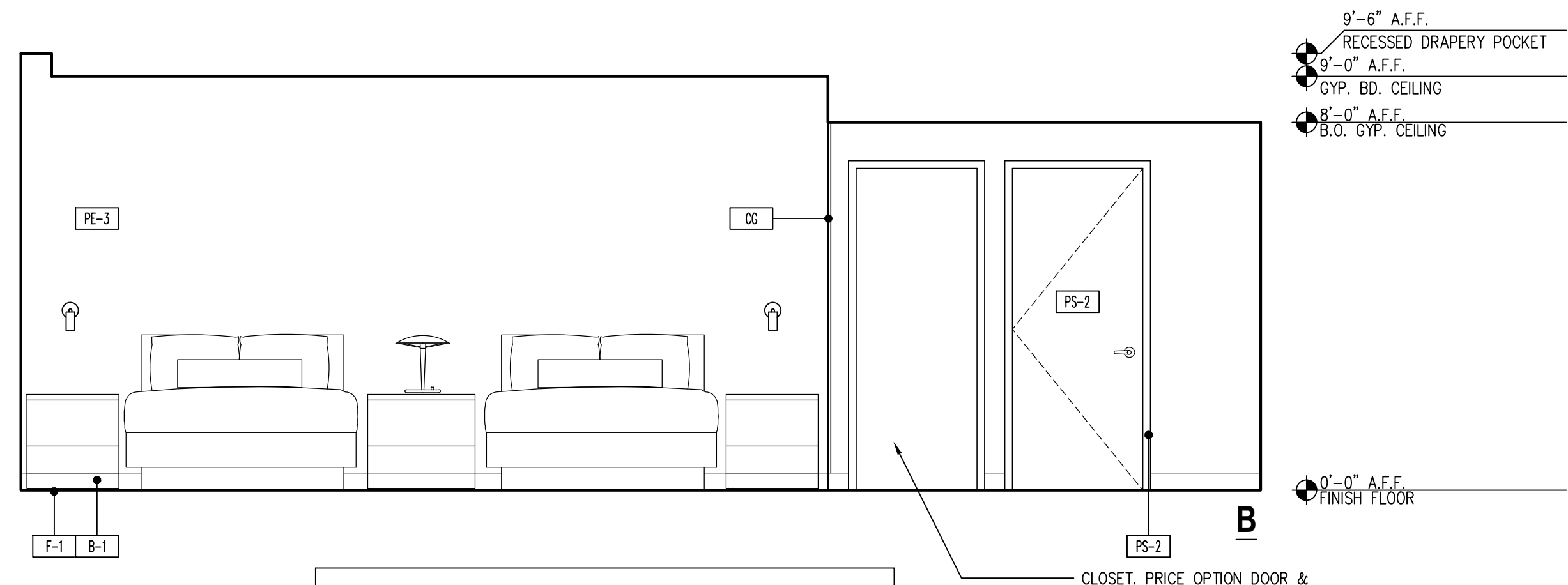
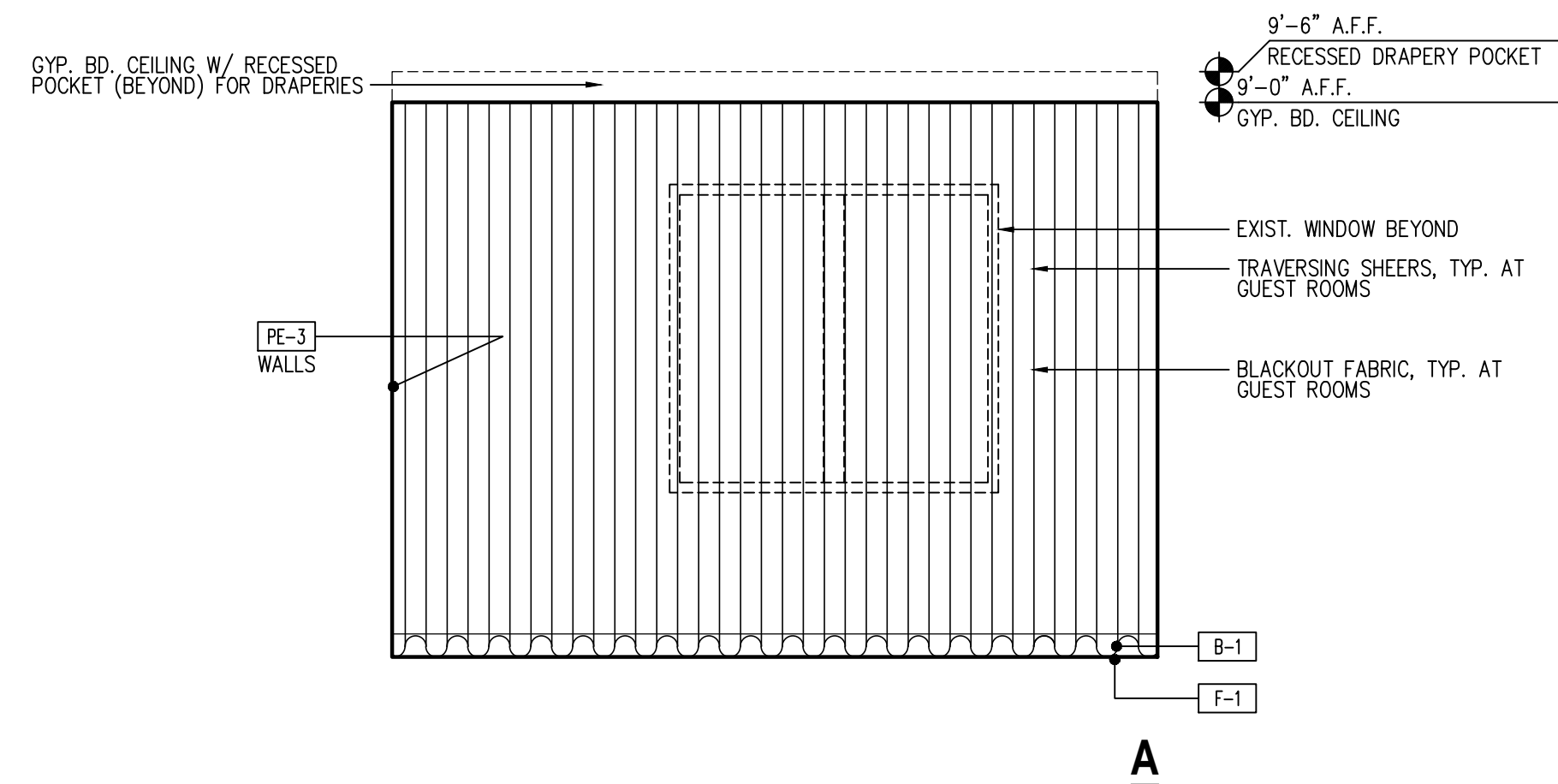


2
A701

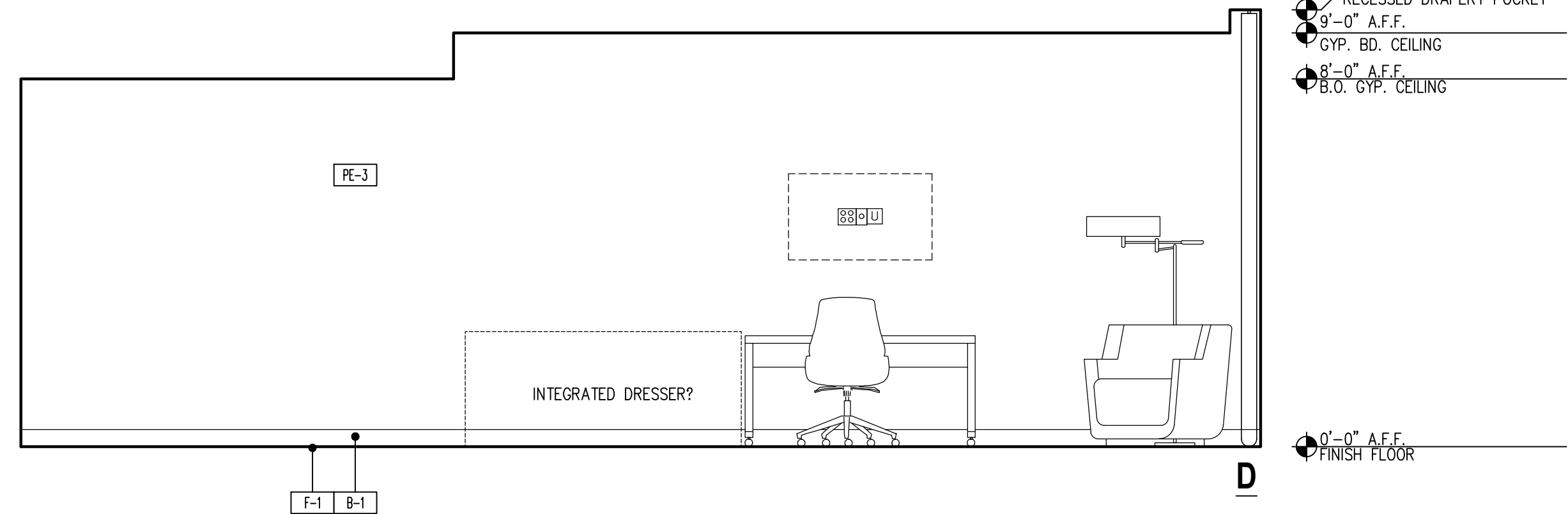
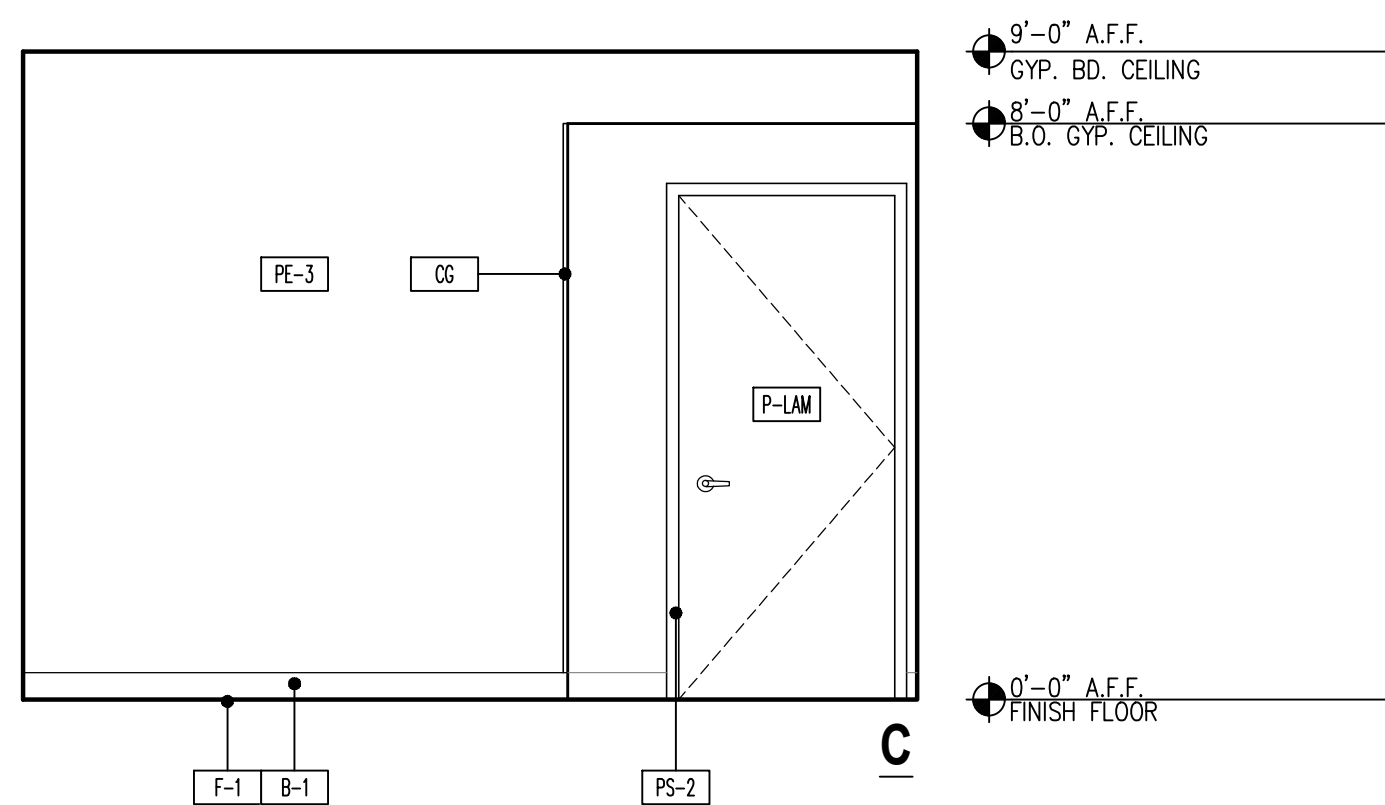
Interior Elevation

Typ. Double Guest Room

SCALE: 3/8"=1'-0"



FF&E BY OWNER - POWER REQ'M
AND SPEC TO BE DETERMINED FOR
UNIT FURNITURE & EQUIPMENT



1
A701

Interior Elevation

Typ. Double Guest Room

SCALE: 3/8"=1'-0"

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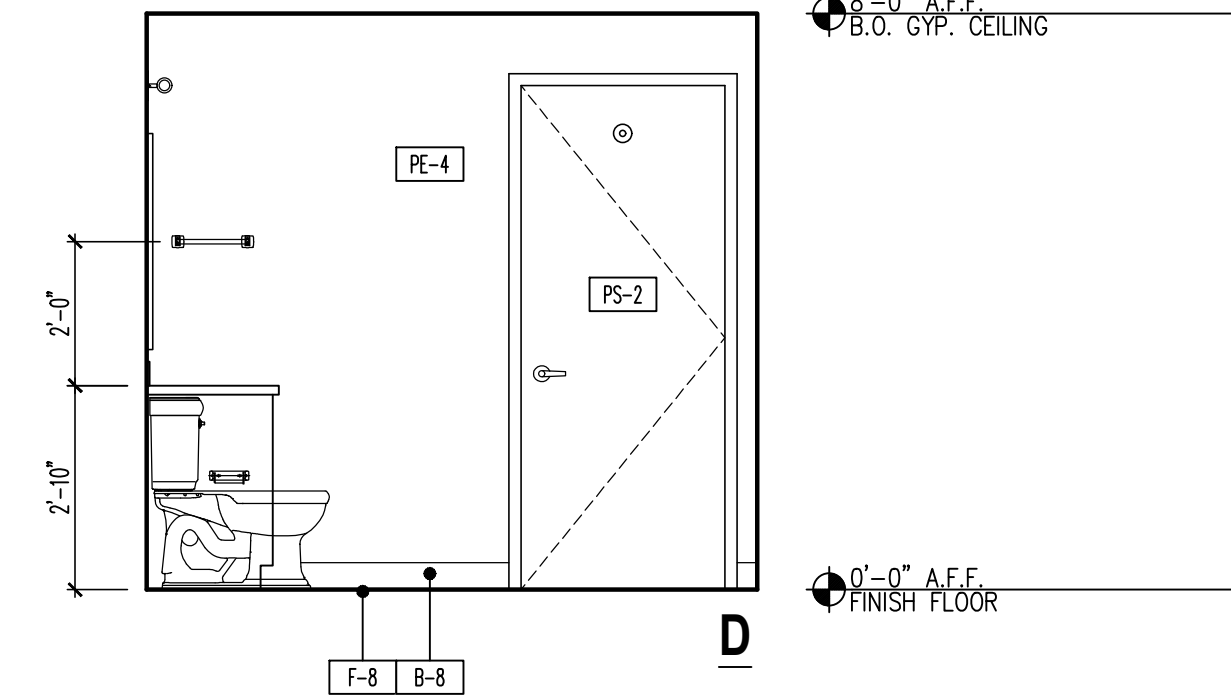
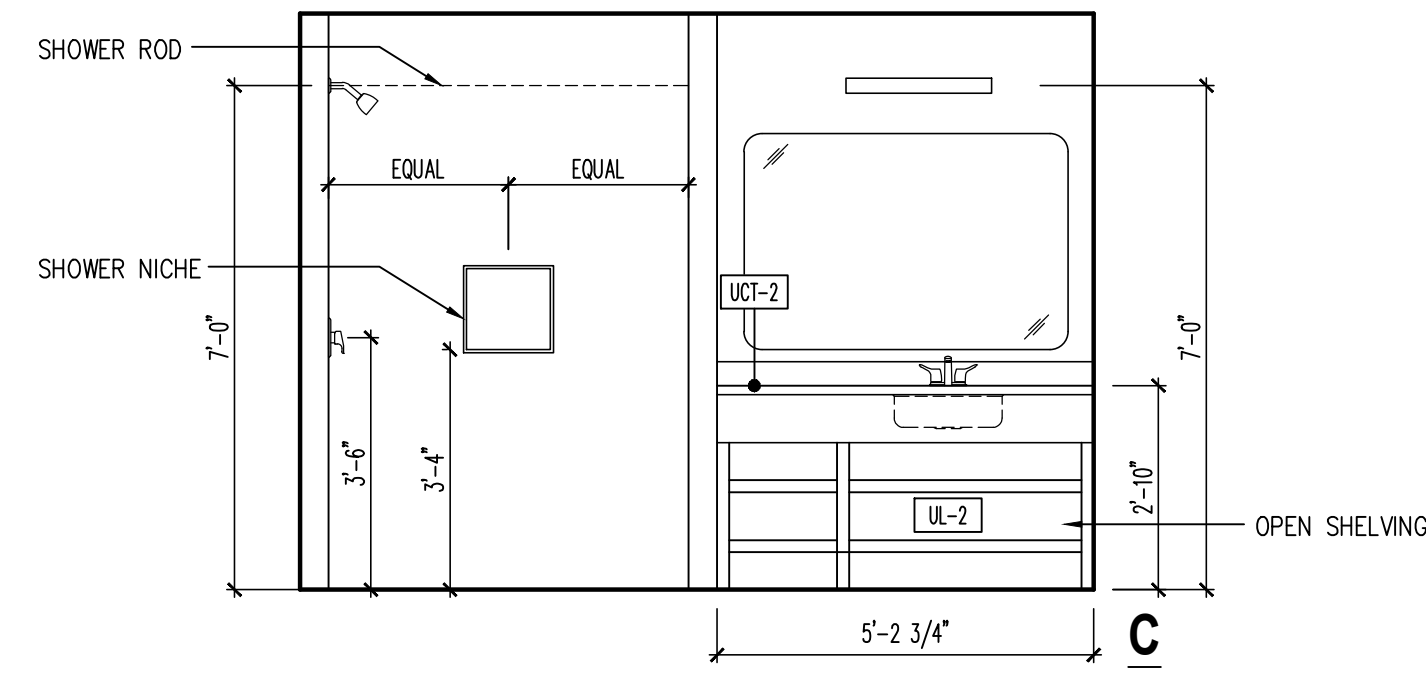
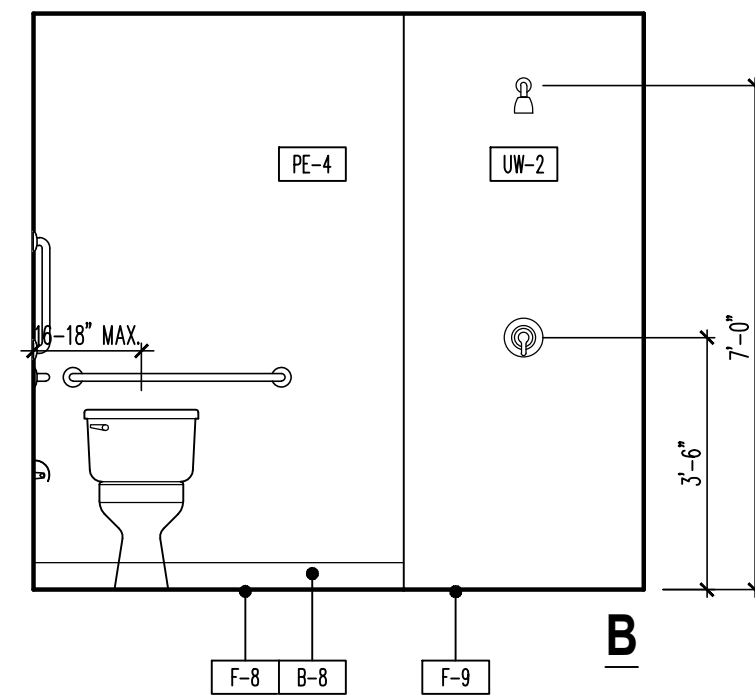
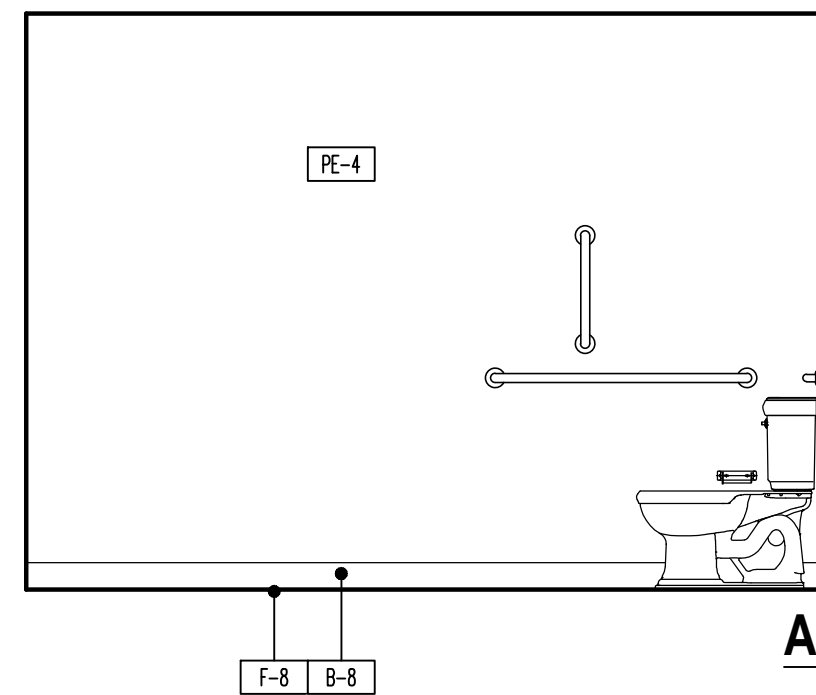
PROJECT NUMBER 8232

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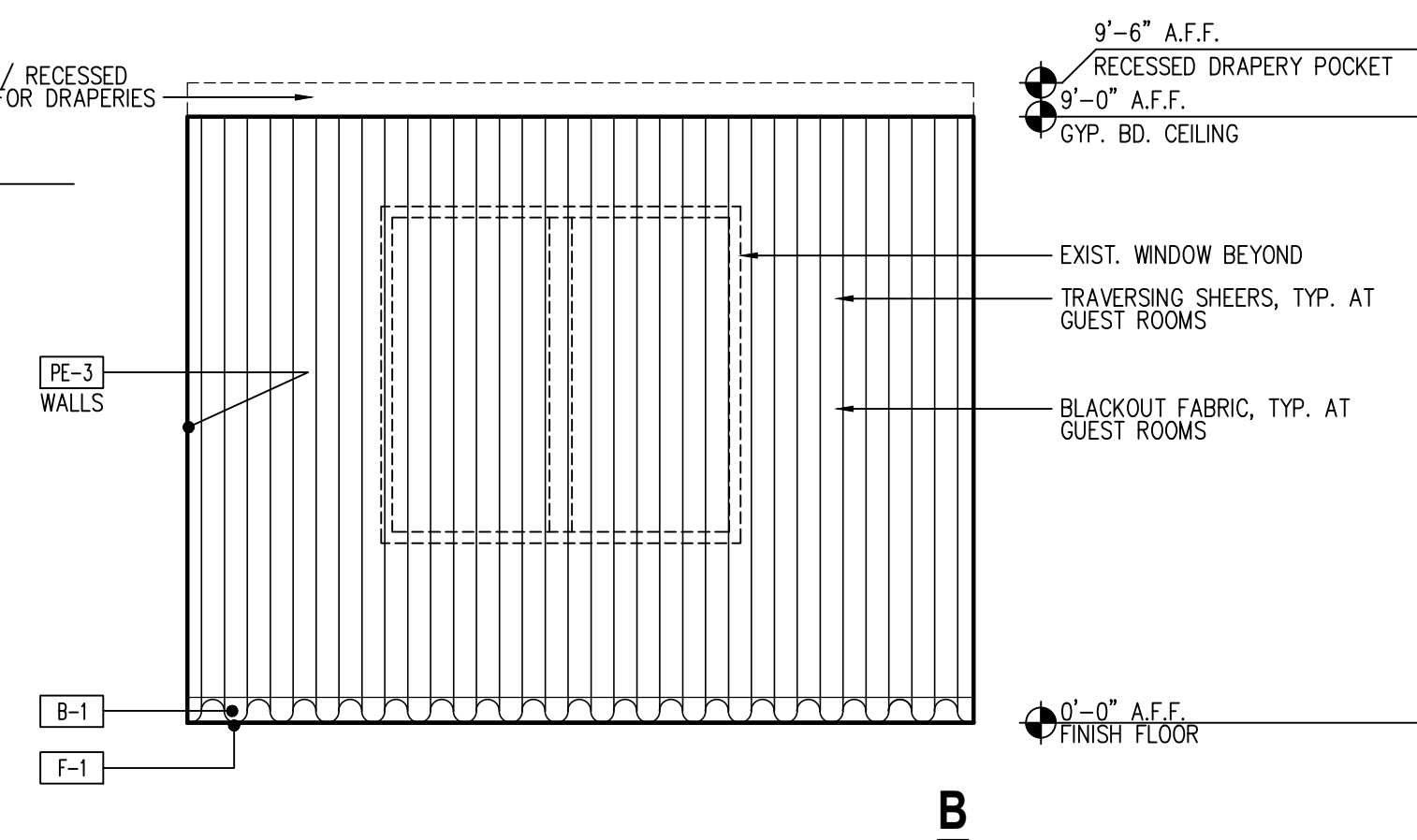
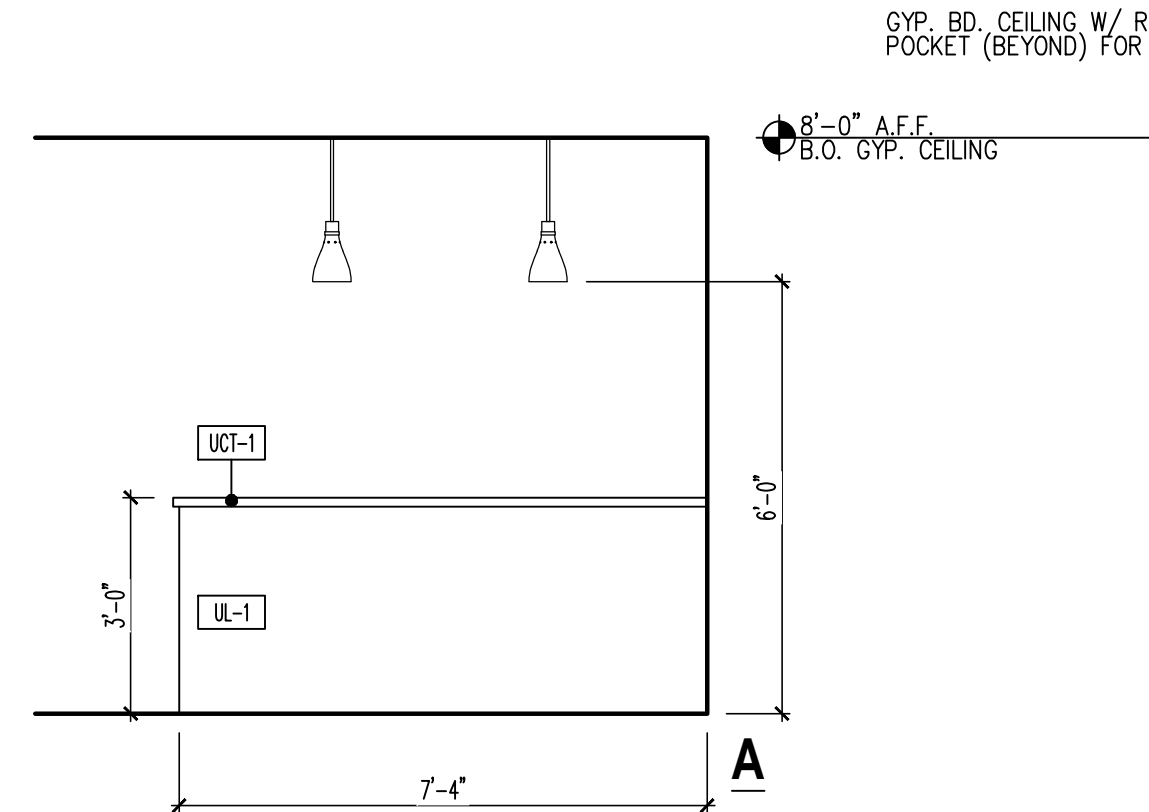
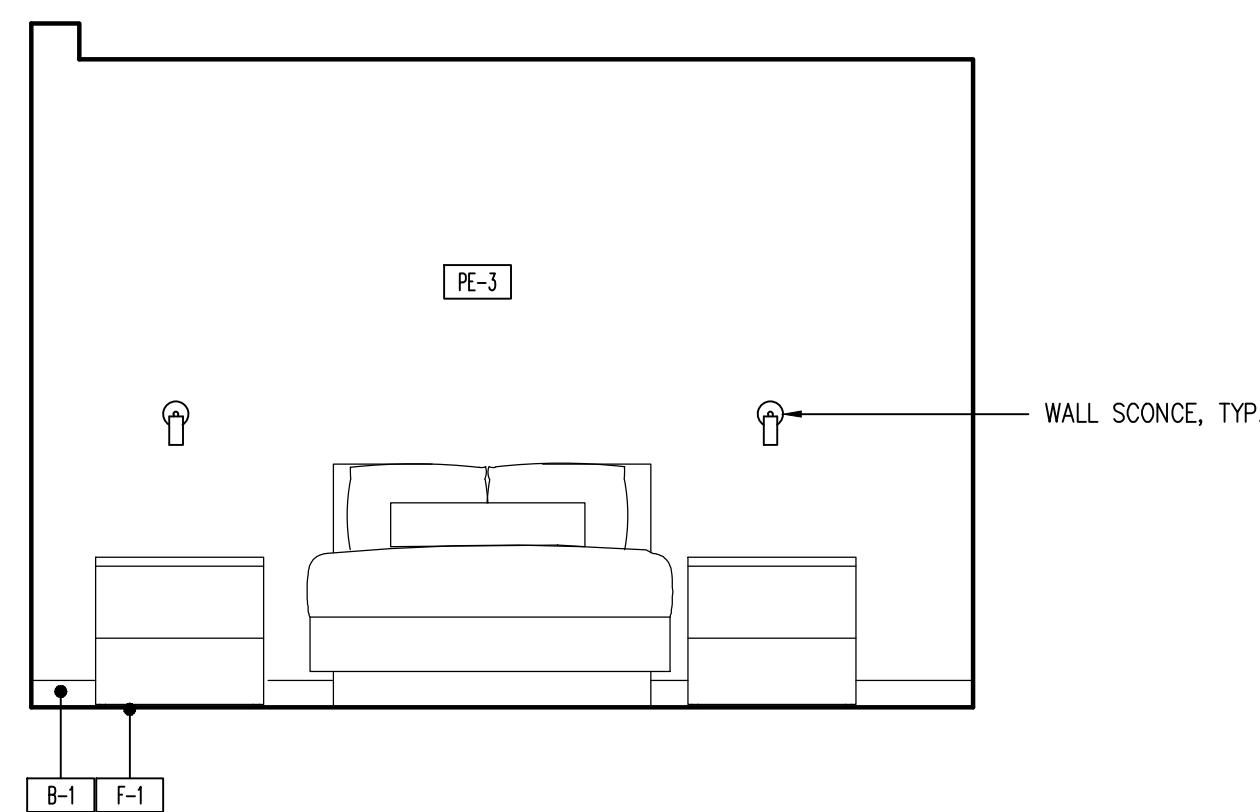
Interior Elevations

SHEET NUMBER

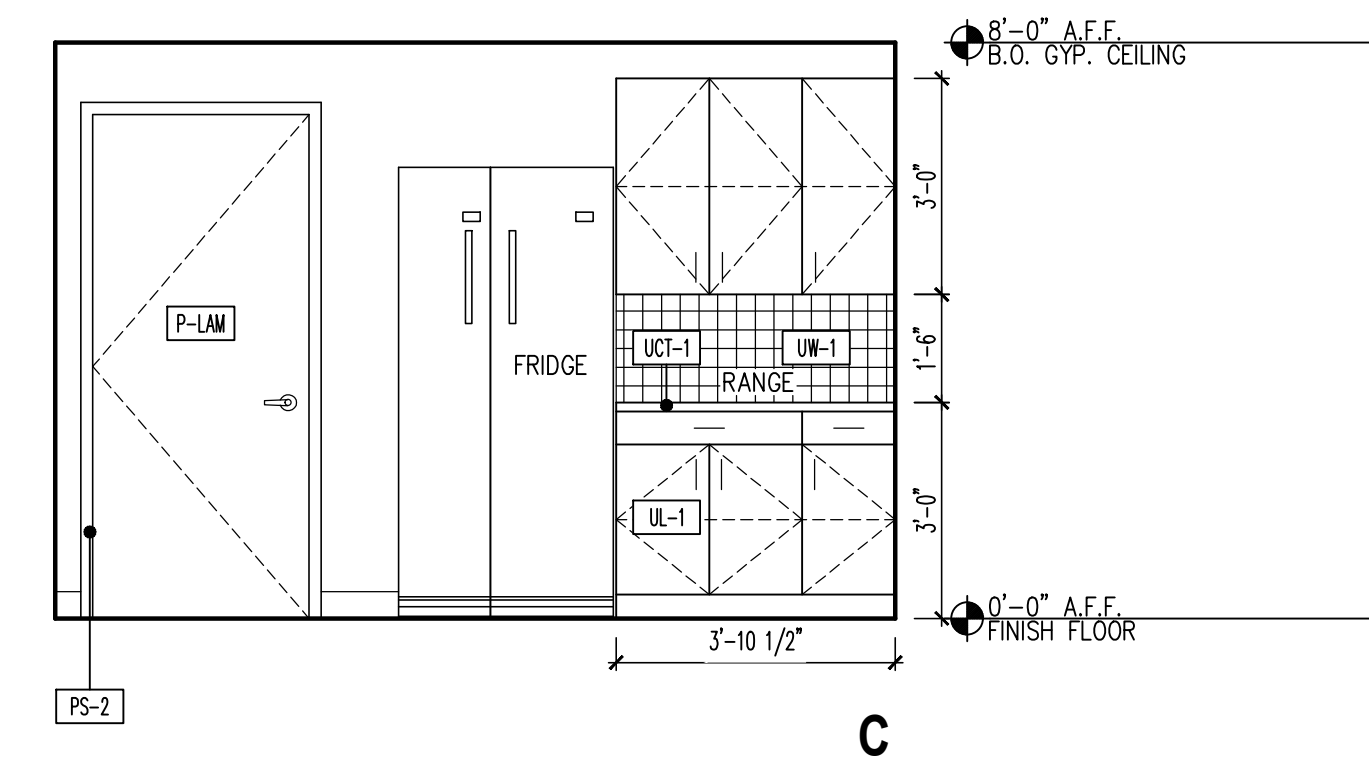
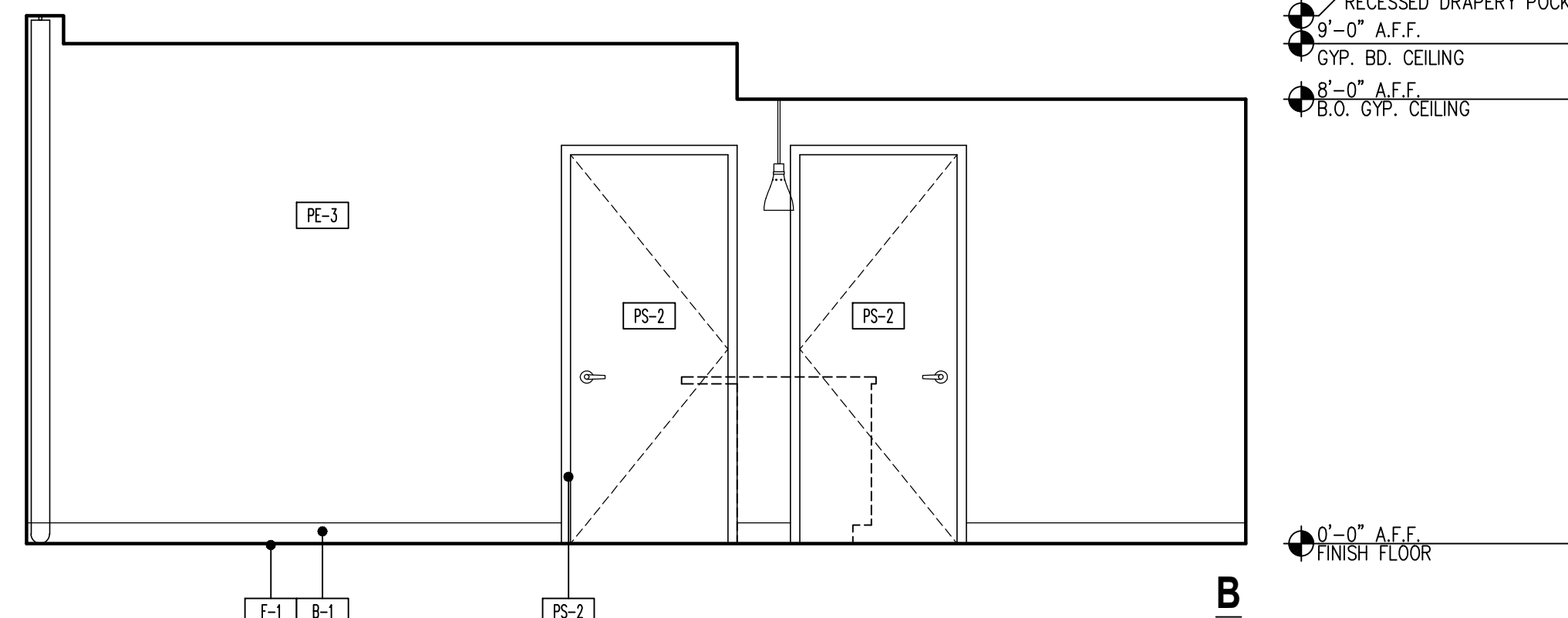
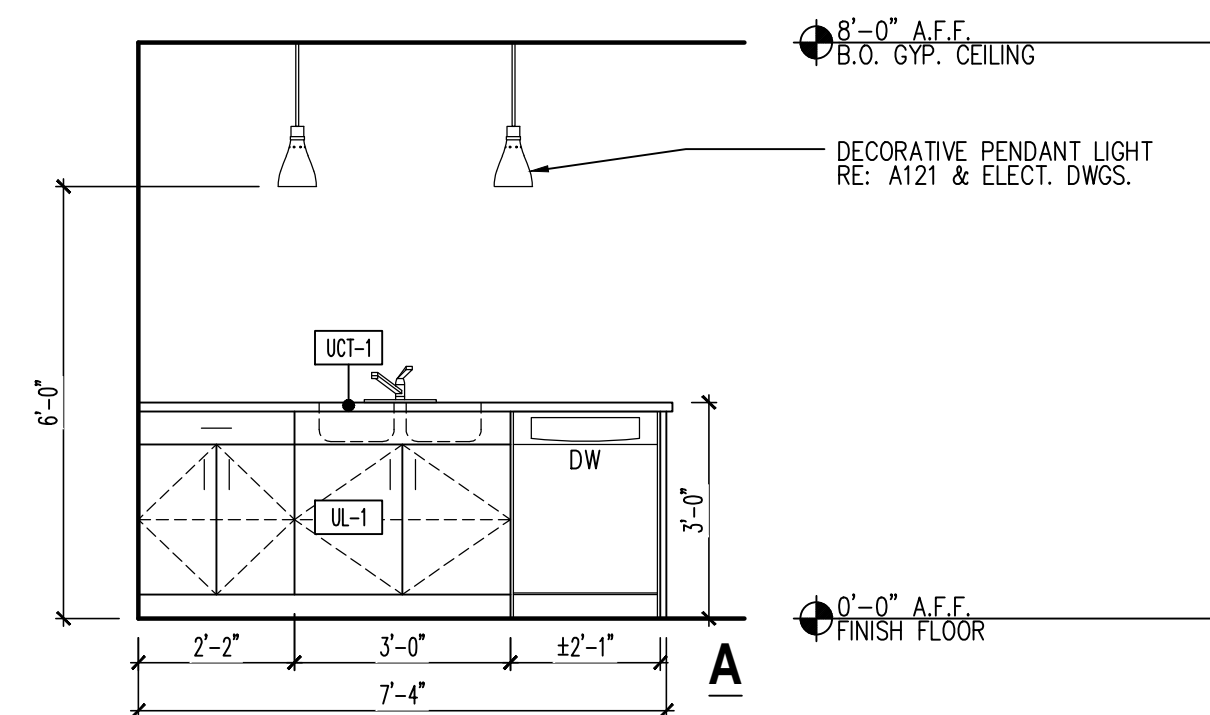
A701



3 Interior Elevation Typ. Bone Marrow Suite ADA
A702 SCALE: 3/8"=1'-0"



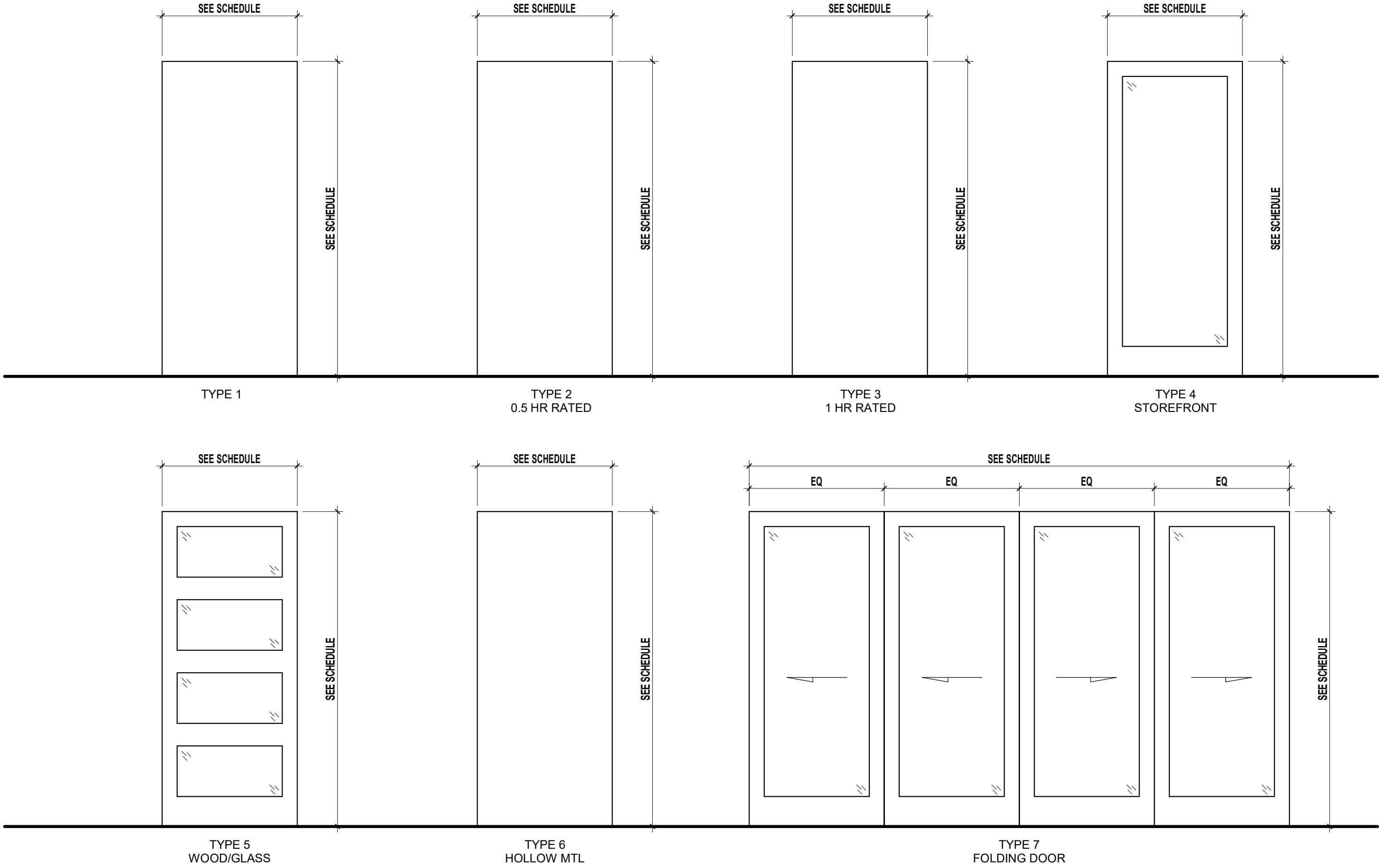
2 Interior Elevation Typ. Bone Marrow Suite ADA
A702 SCALE: 3/8"=1'-0"



1 Interior Elevation Typ. Bone Marrow Suite ADA
A702 SCALE: 3/8"=1'-0"

FF&E BY OWNER - POWER REQ'M
AND SPEC TO BE DETERMINED FOR
UNIT FURNITURE & EQUIPMENT





Door Types
SCALE: 1/2" = 1'-0"



TYPICAL UNIT ENTRY DOORS
ELECTRONIC LOCKSETS TO
BE COORDINATED W/ OWNER

Door Schedule

DOOR NO.	ROOM SERVED	W	H	T	TYPE	DOOR			FRAME			Fire Rating	CLOSER	PANIC HARDWARE	NCDG Remarks - Instance	
						SWING	MATERIAL	FINISH	TYPE	MATERIAL	FINISH					
Ground Floor Plan																
		2' - 8"	6' - 11 13/16"	2 1/4"			Alum/Glass	Dark Bronze		Aluminum	Dark Bronze		Yes			
102A	Reception	6' - 0"	7' - 6"	4		Pair	Alum/Glass	Dark Bronze		Aluminum	Dark Bronze	0.5 Hr	Yes			
103A		3' - 0"	7' - 6"	2 1/4"	4	Single	Alum/Glass	Dark Bronze		Aluminum	Dark Bronze		Yes			
105A	Operations Office	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
106A	Exec. Direction	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
107A	Finance	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
108A	Reception	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
108B	Work Area	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
109A	Staff BR	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
110A	Mech.	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
111A	Reception	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
112A	Dining Room	12' - 0"	7' - 0"	1 3/4"	7	4 Panel Folding	Alum/Glass	Dark Bronze		Hollow Mtl	Paint					
112C	Dining Room	6' - 0"	7' - 6"	4		Pair	Alum/Glass	Dark Bronze		Aluminum	Dark Bronze	0.5 Hr	Yes			
112D	Reception	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
113A	Visitor BR	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
117A	Reception	5' - 0"	7' - 0"	1 3/4"	2	Uneven Pair	S.C. Wood	Wood + Stain		Hollow Mtl	Paint	0.5 Hr	Yes	Yes	Hold Open	
117B		3' - 0"	7' - 6"	2 1/4"	4	Single	Alum/Glass	Dark Bronze		Aluminum	Dark Bronze		Yes			
117M		3' - 0"	7' - 6"	2 1/4"			Alum/Glass	Dark Bronze		Aluminum	Dark Bronze		Yes			
117O		3' - 0"	7' - 6"	2 1/4"	4	Single	Alum/Glass	Dark Bronze		Aluminum	Dark Bronze		Yes			
121A	Bone Marrow Transplant Guest Suite ADA	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
122A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
126A	Bone Marrow Transplant Guest Suite	3' - 0"	7' - 0"	1 3/4"	3	Single	Hollow Mtl	Paint		Hollow Mtl	Paint	1 Hr	Yes	Yes		
127A	Commercial Laundry	3' - 6"	7' - 0"	1 3/4"	3	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint	1 Hr				
129A	Mech / Elec	3' - 6"	7' - 0"	1 3/4"	3	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint	1 Hr				
130A	Room	6' - 0"	7' - 0"	1 3/4"	6	Pair	Hollow Mtl	Paint		Hollow Mtl	Paint					
131A	Corridor 1	6' - 0"	7' - 0"	1 3/4"								1 Hr				
216C		2' - 10"	7' - 0"	2"	1	Single	H.C / HARDBOARD	PAINT		Wood	Paint	N/A	Yes			
216D		2' - 10"	7' - 0"	2"	1	Single	H.C / HARDBOARD	PAINT		Wood	Paint	N/A	Yes			
Second Floor Plan																
201A	Corridor 2	3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
201C	Balcony / Elev. Lobby	6' - 0"	7' - 0"	1 3/4"	4	Pair	Alum/Glass	Dark Bronze		Hollow Mtl	Paint		Yes	Yes	Hold Open	
205A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
207A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
209A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
210A	Double Guest	2' - 10"	7' - 0"	2"	1	Single	H.C / HARDBOARD	PAINT		Wood	Paint	N/A	Yes			
210B		3' - 0"	7' - 0"	1 3/4"	1	Single	S.C. Wood	Wood + Stain		Hollow Mtl	Paint					
211A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
212A	Corridor 2	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
212A	Corridor 2	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
213A	Double Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
214A	Corridor 2	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
222A	Bone Marrow Transplant Guest Suite	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
223A	Bone Marrow Transplant Guest Suite ADA	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
225A	Single Guest	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
226A	Corridor 2	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			
229A	Room	3' - 0"	7' - 0"	1 3/4"	2	Single	S.C./Hardboard	HPL		Hollow Mtl	Paint	0.5 Hr	Yes			

Door Schedule - Units

DOOR NO.	ROOM SERVED	W	H	T	DOOR			FRAME			Fire Rating	CLOSER	PANIC HARDWARE	NCDG Remarks - Instance
					TYPE	SWING	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			
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REVISION SCHEDULE

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Duke University Medical Center FPDC 1345
2625 Pickett Rd., Durham, NC 27707

DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

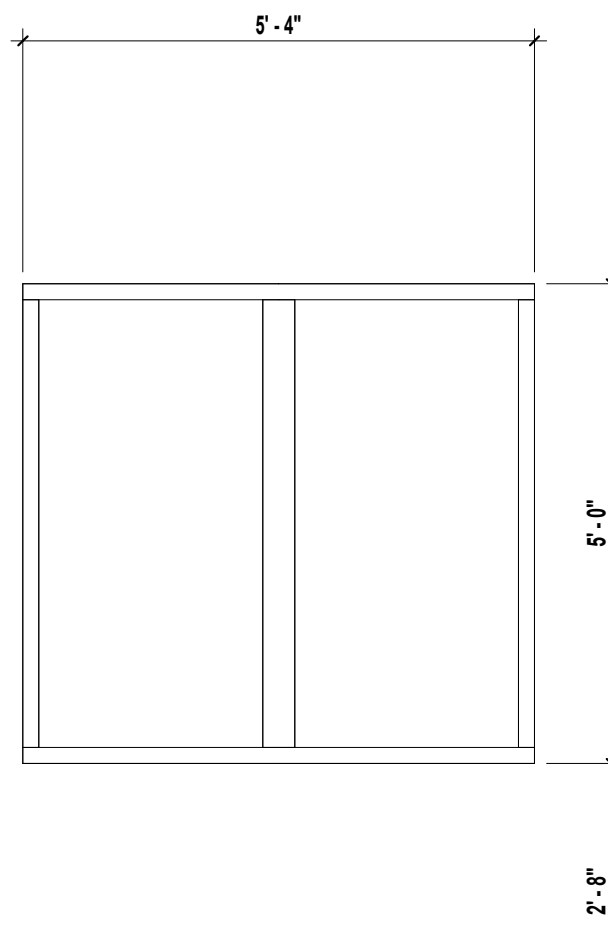
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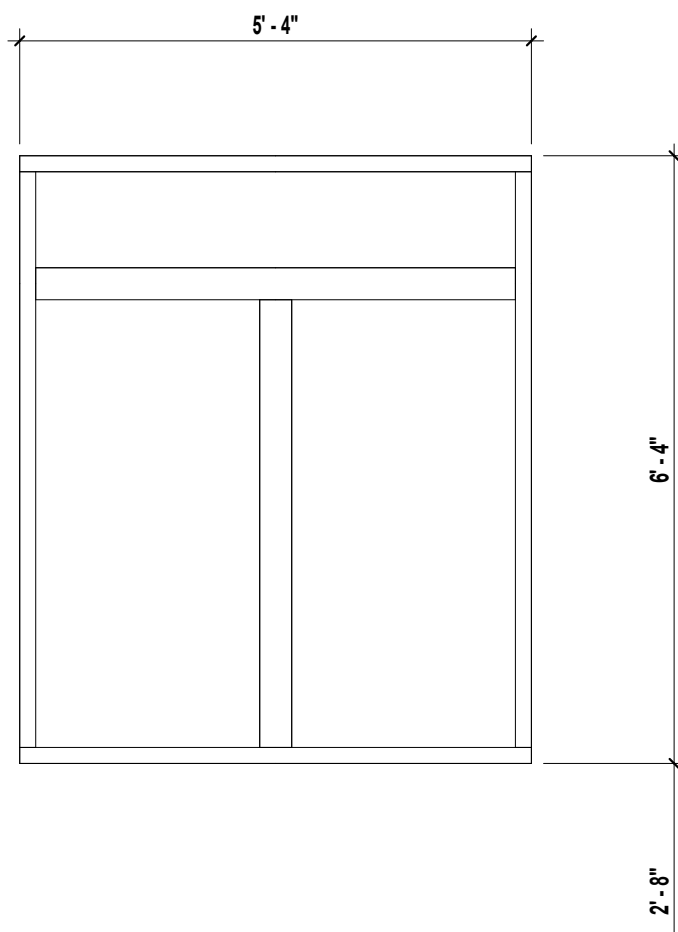
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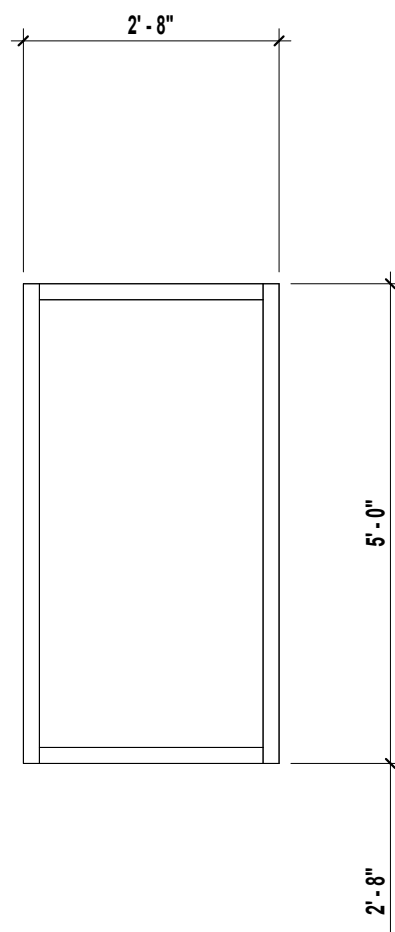
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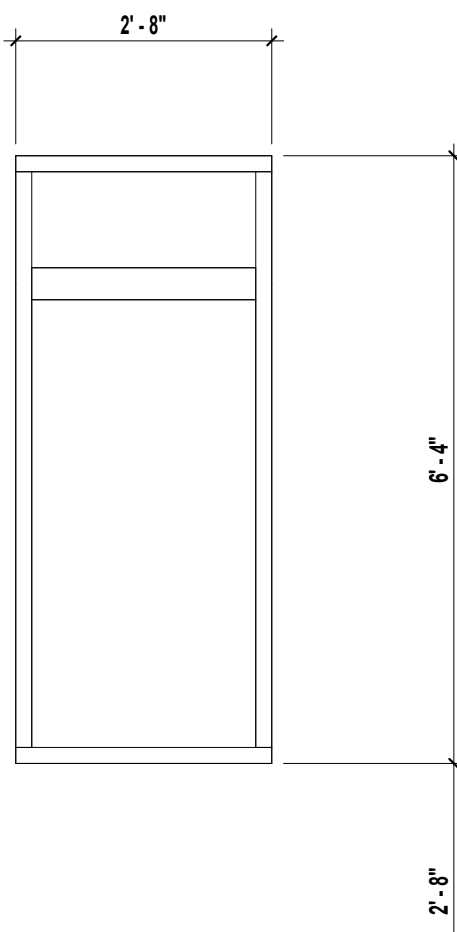
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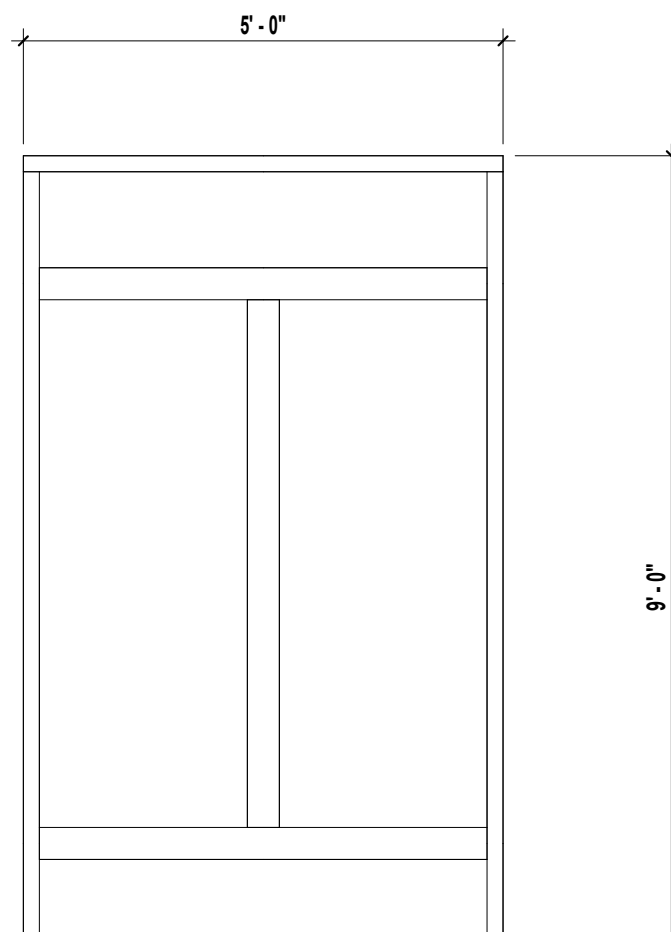
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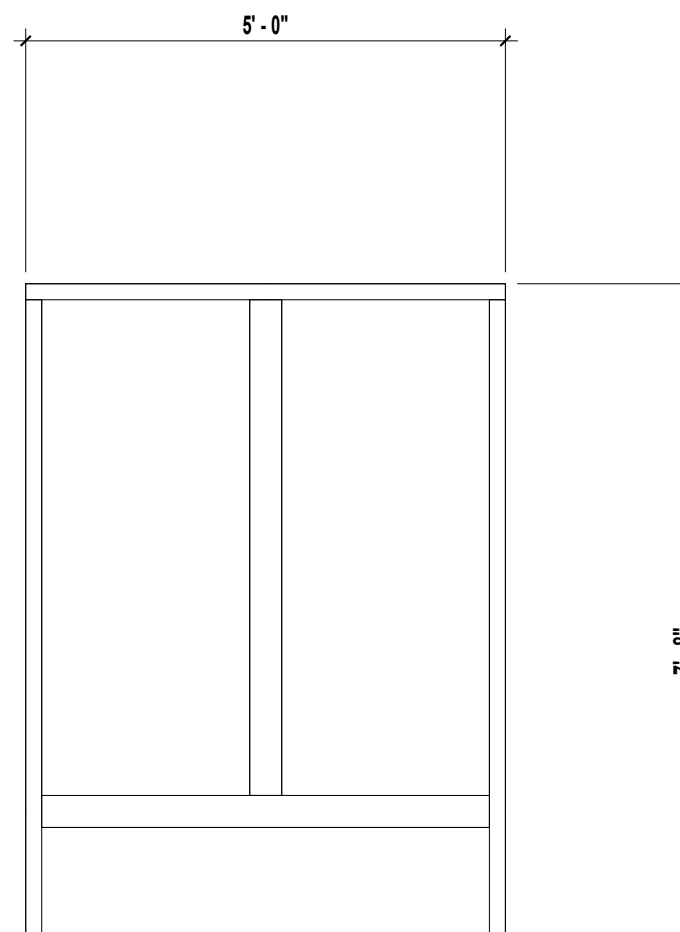
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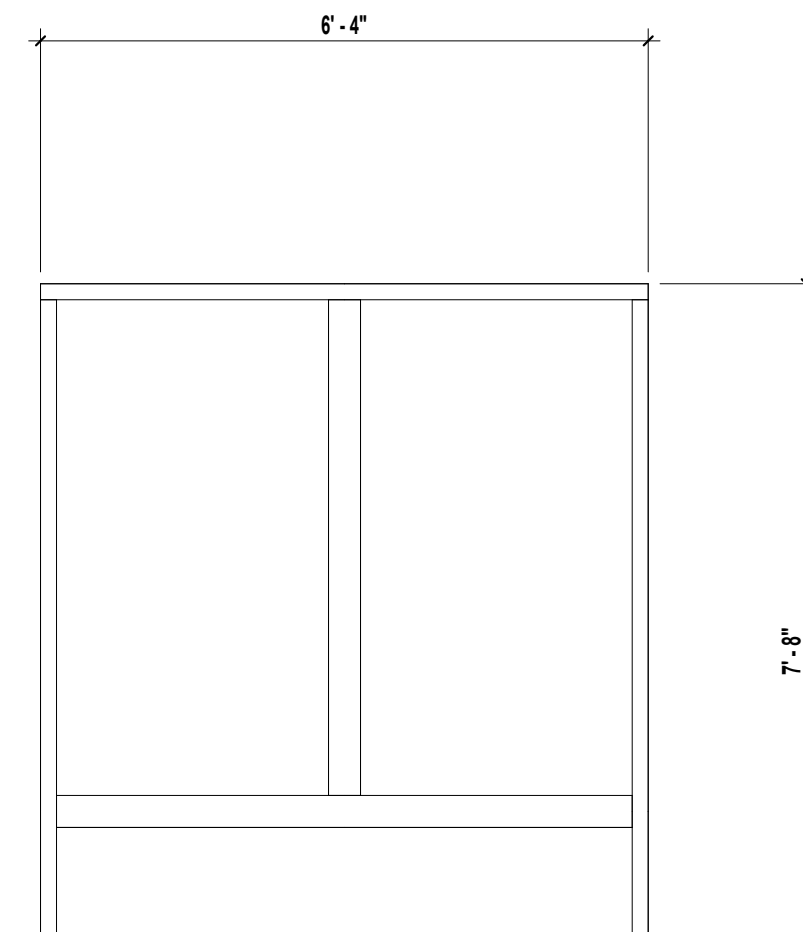
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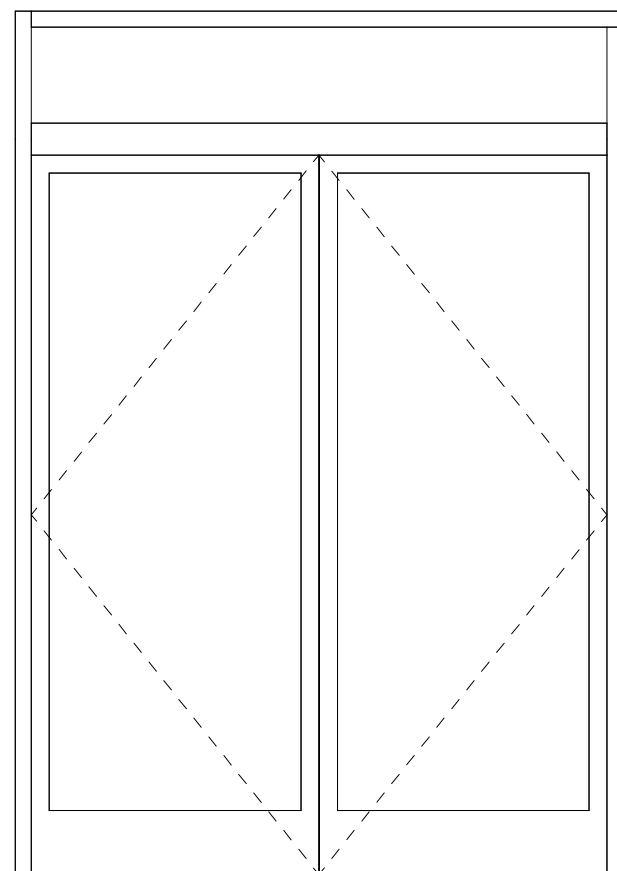
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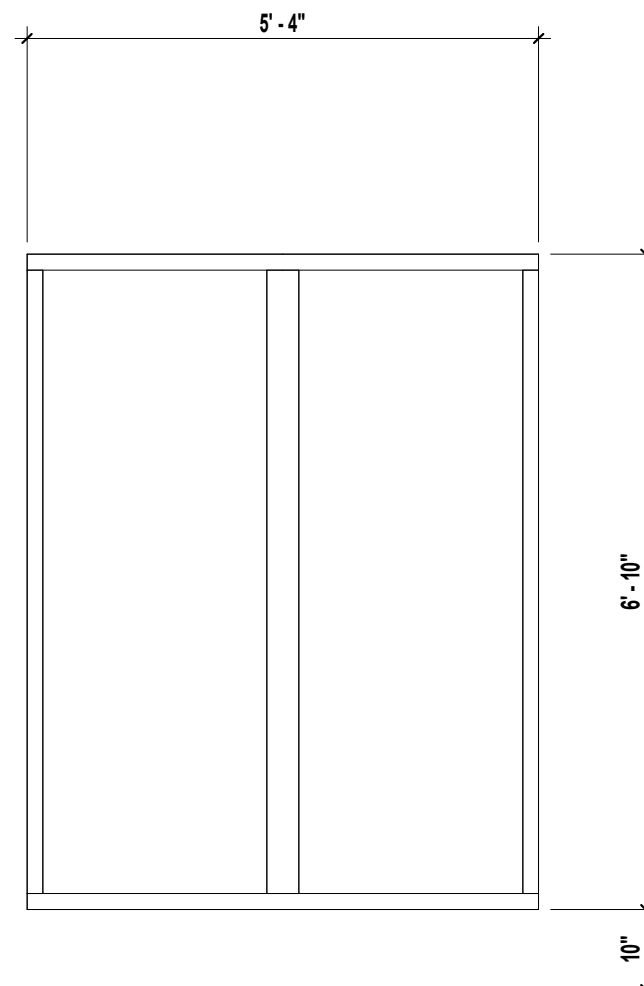
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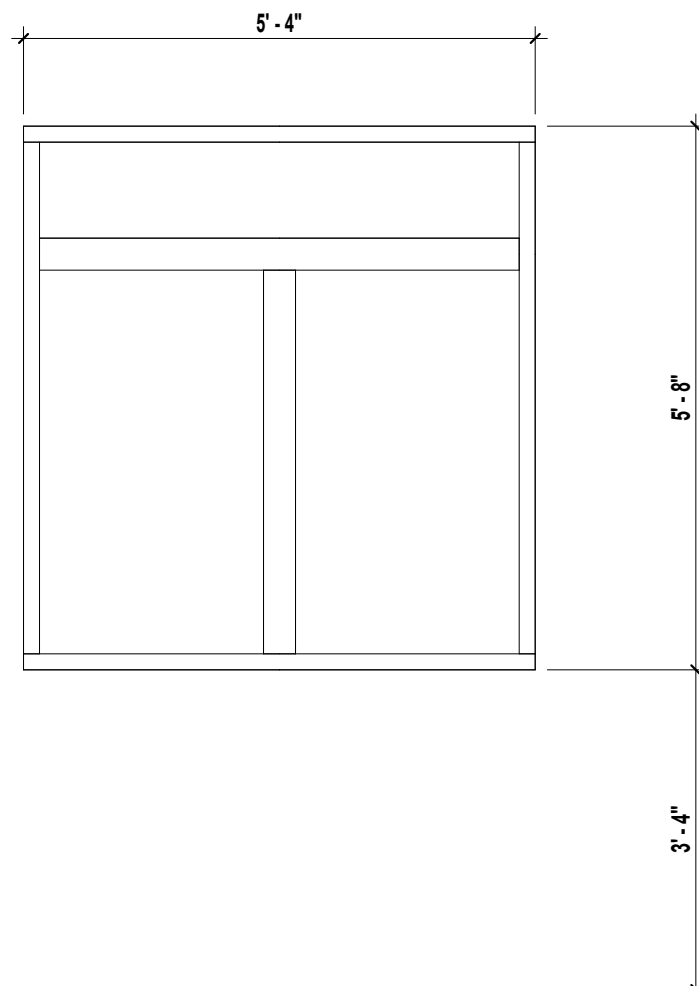
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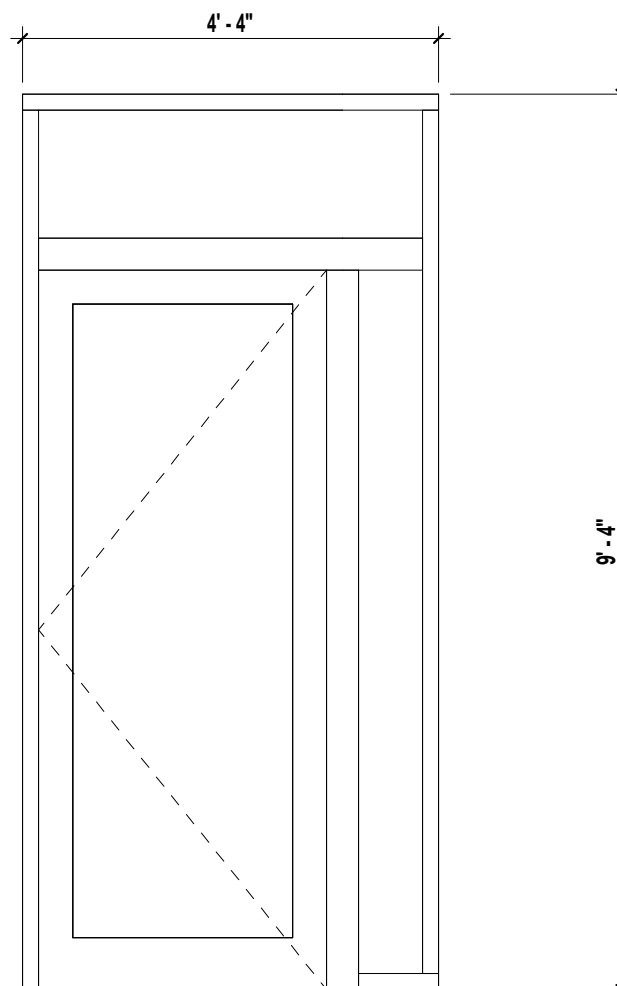
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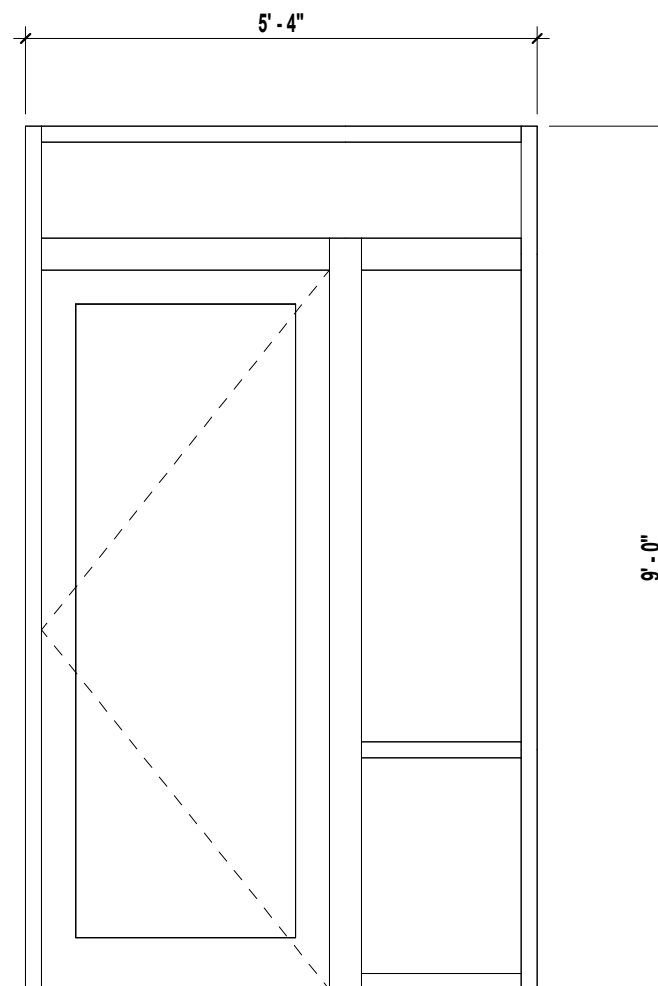
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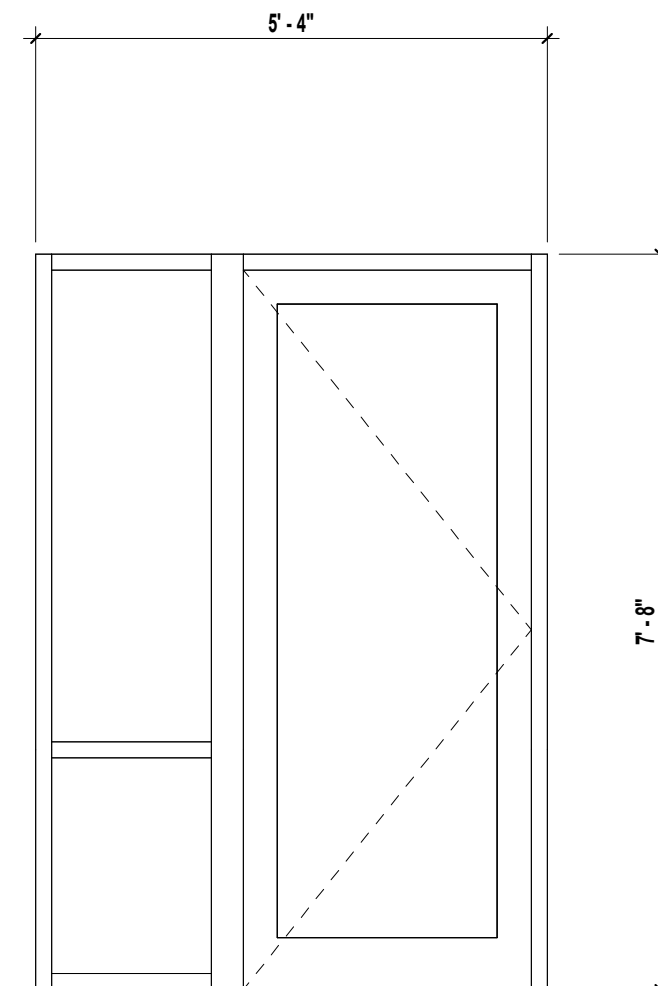
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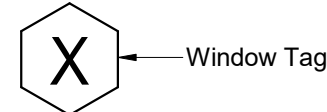
TYPE M



TYPE N



TYPE O



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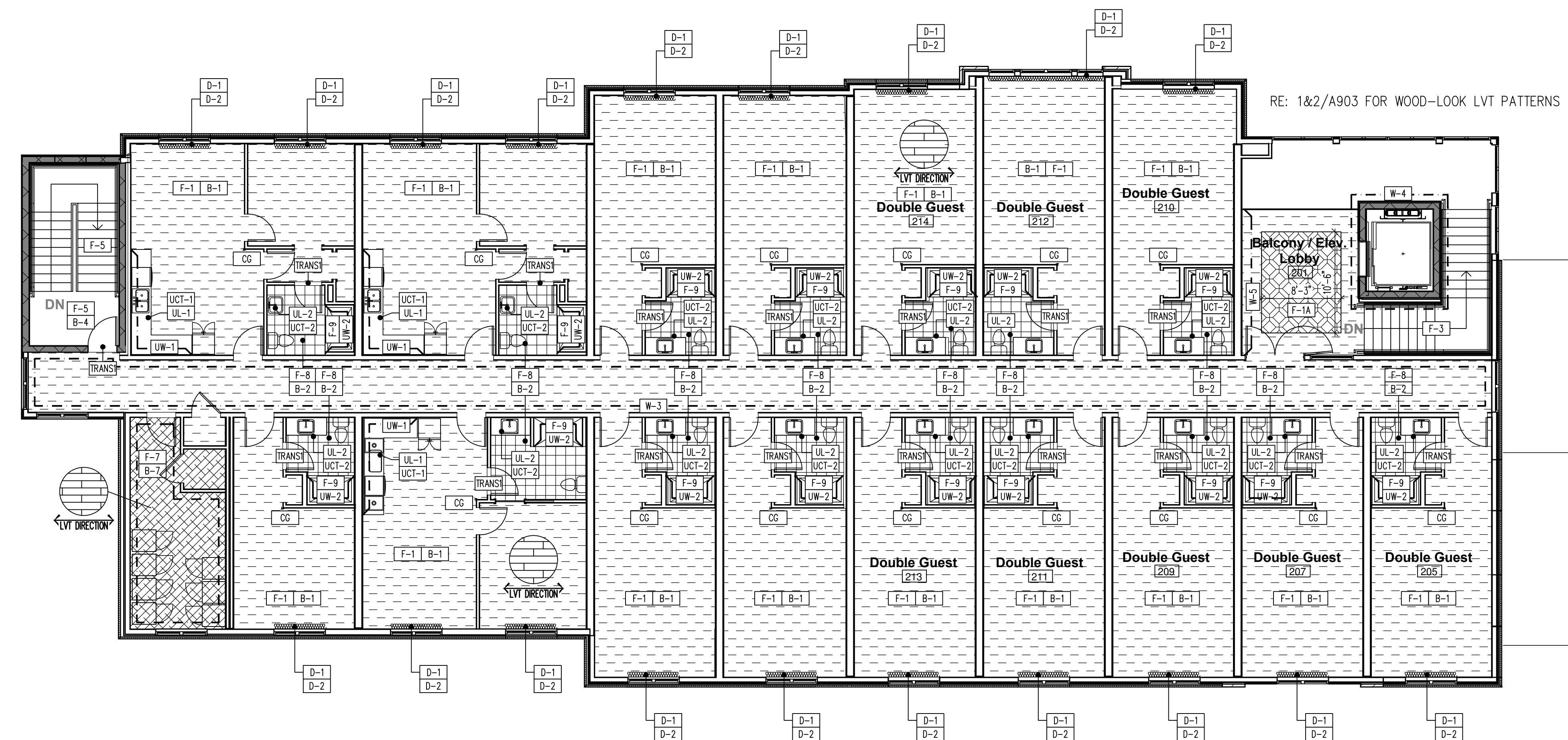
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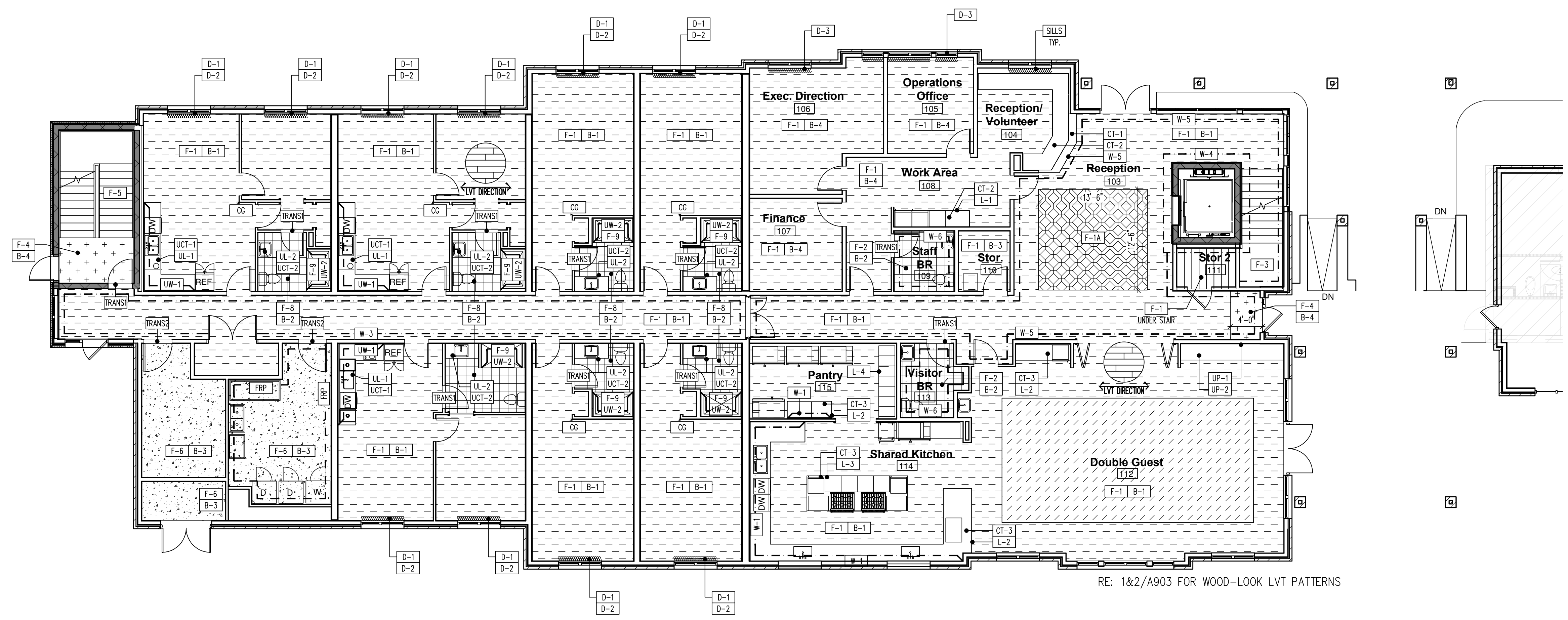
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SHEET NUMBER

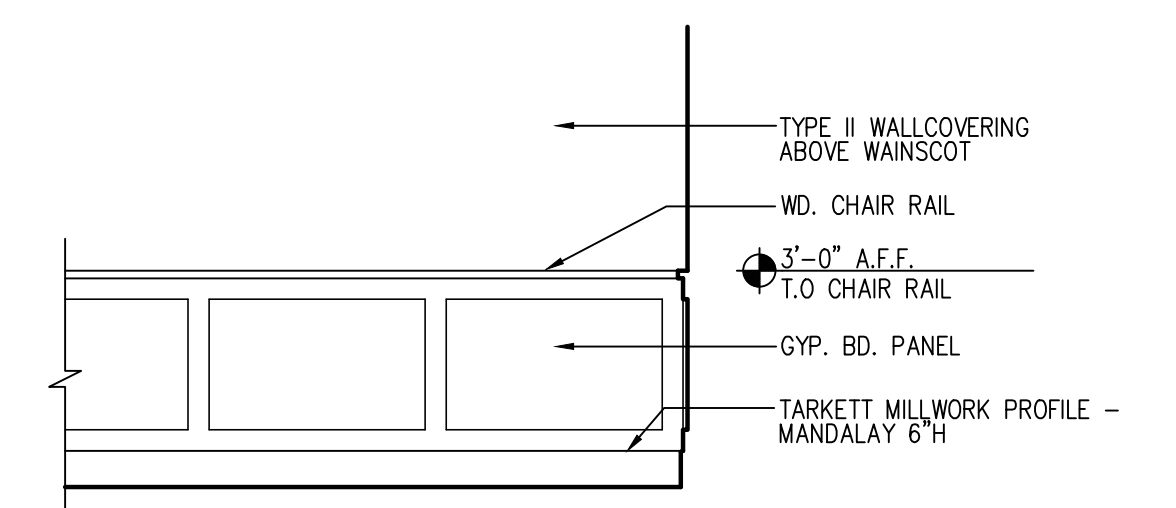
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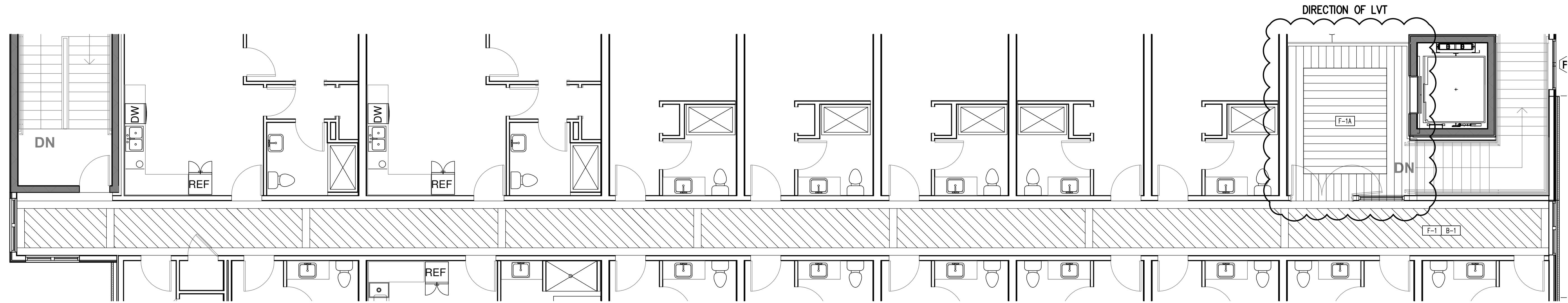
2 Finish Plan
A902 SCALE: 1/8"=1'-0" Second Floor



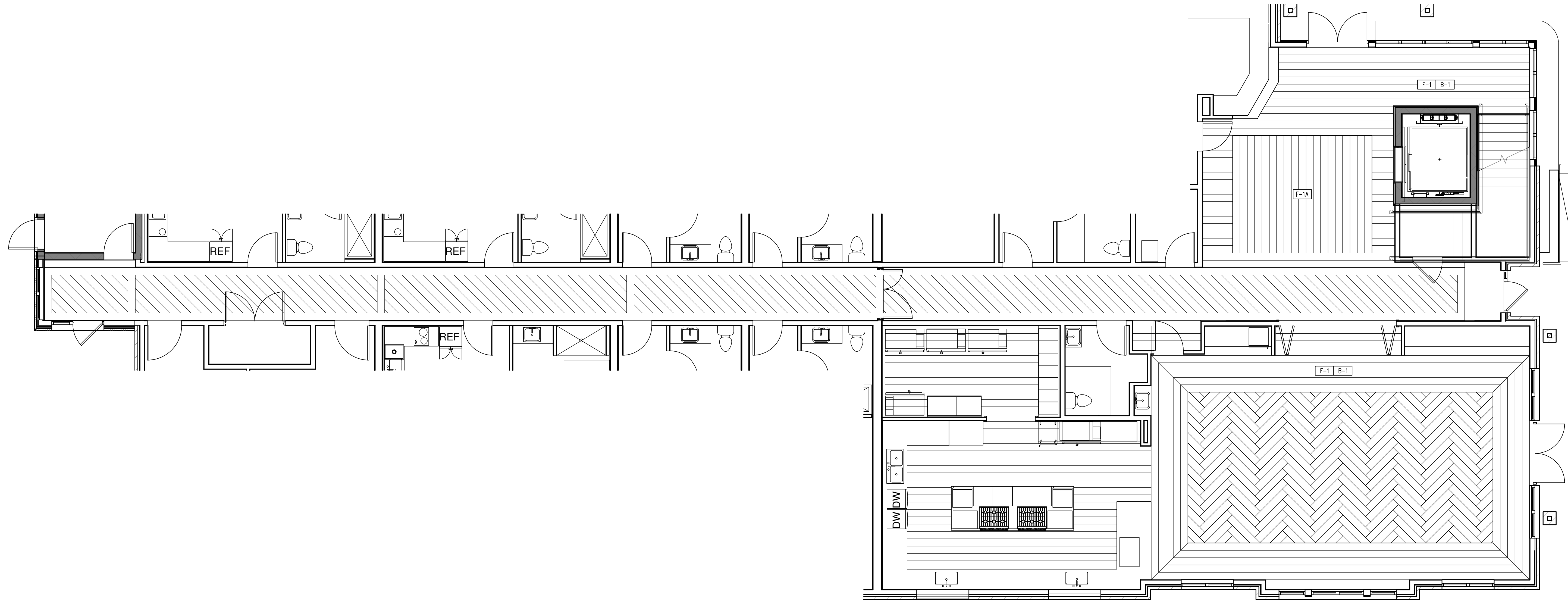
1 Finish Plan
A902 SCALE: 1/8"=1'-0" First Floor



3 Interior Elevation
A902 SCALE: 3/8"=1'-0" @ (W-5) Wainscot



2 LVT Pattern
A903 SCALE: 3/16"=1'-0" Second Floor



1 LVT Pattern
A903 SCALE: 3/16"=1'-0" First Floor

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CONSTRUCTION

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REVISION SCHEDULE

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DESIGN DEVELOPMENT VE

PROJECT NUMBER 8232

SHEET TITLE

Enlarged Finish
Plans

SHEET NUMBER

A903

GENERAL PLUMBING NOTES		
I. <u>GENERAL REQUIREMENTS:</u>		
1. PLUMBING CONTRACTOR IS TO FURNISH & PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.		
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE W/ 2018 NCPC & ALL OTHER APPLICABLE CODES. P.C. IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.		
3. ALL PLUMBING FIXTURES & PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE W/ ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. REGARDLESS OF PRESENCE ON PLANS. SEE FIXTURE SCHEDULE.		
4. ALL EQUIPMENT, MATERIALS, & INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE W/ THE MFG'S STANDARD GUARANTEE. IF LONGER, EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.		
5. THESE DRAWINGS ARE DIAGRAMMATIC & SHOW GENERAL LOCATION & ARRANGEMENT OF ALL MATERIALS & EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION & ALL OTHER WORK WILL PERMIT.		
6. DO NOT SCALE DRAWINGS FOR MEASUREMENT.		
7. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT & MFG'S MODEL NUMBER. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION & MODEL NUMBER, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS & NOTES/ SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.		
8. BEFORE BID P.C. IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY & COMPLETELY THE SCOPE OF WORK INVOLVED, & HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.		
9. AS SOON AS POSSIBLE (& NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE P.C. SHALL PROVIDE SUBMITTALS OF PLUMBING EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW & COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.		
10. ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT & MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.		
11. P.C. IS TO REVIEW COMPLETE DRAWING SET. P.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN & WORK IMPLIED, UNLESS OTHERWISE NOTED. FINAL PLUMBING CONNECTION TO ALL EQUIPMENT, FIXTURES, ETC. IS THE RESPONSIBILITY OF THE P.C..		
II. <u>DIVISION OF WORK:</u>		
1. ALL ROOF PENETRATIONS, FLASHING, ETC. ARE TO BE PERFORMED BY ROOFING CONTRACTOR.		
2. ALL LOW VOLTAGE WIRING RELATED TO PLUMBING EQUIPMENT & SYSTEMS IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL HIGH VOLTAGE CONNECTIONS TO PLUMBING EQUIPMENT, INCLUDING DISCONNECTS, TO BE PROVIDED & INSTALLED BY E.C.		
3. G.C. TO BE RESPONSIBLE FOR PROVIDING & INSTALLING ANY ACCESS DOORS RELATED TO PLUMBING SYSTEM (W/ EXCEPTION OF CLEANOUT COVERS, BY P.C.). P.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE & LOCATION OF REQUIRED ACCESS DOOR(S).		
4. PLUMBING CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING & PATCHING OF WALLS, FLOORS, & CEILINGS RELATED TO THE INSTALLATION OF PLUMBING EQUIPMENT & SYSTEMS.		
5. G.C. TO BE RESPONSIBLE FOR PROVIDING & INSTALLING ANY WATER HEATER PLATFORMS, EITHER FLOOR/WALL MOUNTED OR SUSPENDED. P.C. TO COMMUNICATE REQUIREMENTS TO G.C.		
6. ALL GAS PIPING IS BY MECHANICAL CONTRACTOR.		
7. WATER HEATER VENT BY PLUMBING CONTRACTOR.		
III. <u>MATERIALS:</u>		
1. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.		
2. ALL MATERIALS INSTALLED IN RETURN PLENUM ARE TO BE PLENUM RATED.		
3. PIPING MATERIALS & FITTINGS SHALL BE AS FOLLOWS: WASTE & VENT (ABOVE & BELOW SLAB): PVC PIPE, PVC SOCKET FITTINGS, & SOLVENT-CEMENTED FITTINGS. DOMESTIC WATER (BELOW SLAB): TYPE 'K' COPPER. OR CONTINUOUS PEX. DOMESTIC WATER (ABOVE SLAB): TYPE 'L' COPPER W/ SWEATED SOCKET FITTINGS. THREADED FITTINGS MAY BE USED AT VALVES, FIXTURES, & SIMILAR. OR CPVC PIPING W/ SOLVENT-CEMENTED FITTINGS. THREADED FITTINGS MAY BE USED AT VALVES, FIXTURES, & SIMILAR. OR PEX PIPING W/ FLARED OR MECHANICAL JOINTS/FITTINGS. DO NOT USE IN EXPOSED AREAS. STORM PIPING (ABOVE &/OR BELOW SLAB): PVC PIPE, PVC SOCKET FITTINGS, & SOLVENT-CEMENTED FITTINGS.		
4. FOR AUTOMATIC-CIRCULATING HOT WATER SYSTEMS, PIPING SHALL BE INSULATED W/ 1" OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU ·IN/HR x FT² x °F. THE FIRST 8' OF PIPING IN NON-CIRCULATING SYSTEMS SERVED BY EQUIPMENT W/OUT INTEGRAL HEAT TRAPS SHALL BE INSULATED W/ 0.5" OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU ·IN/HR x FT² x °F. (2018 NCECC C404.4) ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO AT LEAST R-2. CIRCULATING HOT WATER SYSTEMS SHALL INCLUDE AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH THAT CAN TURN OFF THE HOT WATER CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE. (2018 NCECC R403.5)		
5. INSULATION IS REQUIRED ON ALL ROOF DRAIN BODIES & PIPING (ABOVE SLAB). 1/2" THICK RIGID MOLDED FIBERGLASS W/ FITTINGS INSERTS. PVC COVERS, & VAPOR BARRIER JACKET.		
6. PROVIDE HANGERS & SUPPORTS APPROVED FOR USE PER NCPC.		
7. ANY PLUMBING FIXTURES W/ A COMMON SHUT-OFF VALVE (I.E. PRE-RINSE, KITCHEN SINK, MOP SINK) ARE TO INCLUDE A CHECK VALVE ON THE HOT & COLD WATER VALVES TO PREVENT INTERCONNECTION OF HOT & COLD WATER LINES.		

- IV. COORDINATION:
1. BEFORE BEGINNING WORK, INVERT ELEVATIONS SHALL BE ESTABLISHED. P.C. IS TO ENSURE PROPER SLOPES OF ALL WASTE & STORM PIPING CAN BE MAINTAINED. CONTACT ENGINEER IMMEDIATELY IF PROBLEM/ISSUE IS DISCOVERED.

2. P.C. TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS W/ ROOFING CONTRACTOR & MECHANICAL CONTRACTOR. P.C. & M.C. TO COORDINATE TO ENSURE NO PLUMBING VENTS ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES.

3. P.C. TO COORDINATE W/ G.C. & ARCH PLANS TO ENSURE NECESSARY BACKING/SUPPORTS ARE INSTALLED TO ALLOW INSTALLATION OF PLUMBING FIXTURES.

4. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY W/ ALL OTHER TRADES TO AVOID CONFLICT & ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE PLUMBING WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC.)

5. PIPING SHOULD BE COORDINATED W/ ALL STRUCTURAL FOOTINGS & FOUNDATIONS. PIPE SHOULD BE OFFSET TO AVOID CONTACT W/ FOOTINGS & FOUNDATION WALLS. IF PIPING MUST RUN UNDER A FOOTING OR THROUGH A FOUNDATION WALL, THE PIPE MUST BE INSTALLED W/ A RELIEVING ARCH OR IN A PIPE SLEEVE PER NCPC 305.3.

6. P.C. TO REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- V. EXECUTION:
1. P.C. TO FOLLOW MFG'S INSTRUCTIONS WHEN INSTALLING PLUMBING EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS & CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS & MFG'S INSTRUCTIONS, CONTACT ENGINEER.

2. P.C. RESPONSIBLE FOR EXECUTING ALL CODE REQUIRED TESTS & INSPECTIONS, INCLUDING BUT NOT LIMITED TO, LEAK & PRESSURE TESTING OF WASTE, VENT, & WATER PIPING, & SANITIZING OF WATER PIPING.

3. WATER SERVICE & BUILDING SEWER PIPING MUST BE SEPARATED PER NCPC 603.2.

4. ENSURE PIPING LOCATED ON EXTERIOR WALLS (OR OTHER WALLS EXPOSED TO FREEZING CONDITIONS) IS INSTALLED ON WARM-SIDE OF WALL INSULATION PER NCPC 305.4.

5. ALL WATER PIPING INSTALLED BELOW GRADE TO BE PROTECTED AGAINST FREEZING BY BURYING NOT LESS THAN 6" BELOW THE FST LINE OR NOT LESS THAN 12" BELOW FINISHED GRADE, WHICHEVER IS GREATER PER NCPC 305.4.

6. ANY NOTCHING, DRILLING, BORING, OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD & NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.

7. SUPPORT ALL PIPING IN ACCORDANCE W/ NCPC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.

8. PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU FIRE RATED WALLS, FLOORS, & CEILINGS.

9. PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS, & CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER & IN ACCORDANCE W/ 2018 NCECC.

10. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE W/ PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AS PLANS INDICATED & AT THE BASE OF ALL WASTE STACKS. AT EVERY FOUR 45 DEGREE TURNS IN SERIES (W/ ONE 90° ELBOW COUNTING AS TWO 45° BENDS). AT EVERY 100 FEET, & AT THE BASE OF ALL ROOF LEADERS. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.

11. ANY PIPE INVERTS ARE MEASURED TO THE BOTTOM OF THE PIPE.

12. SUPPLY BRANCH LINES SERVING MORE THAN ONE (1) FIXTURE SHALL INCLUDE SHUT-OFF VALVE, LABEL VALVE & LOCATE AS CLOSE TO RISER/MAIN AS POSSIBLE. (NCPC 606.2.1)

13. VALVES NOT DIRECTLY AT EQUIPMENT SHALL BE LABELED INDICATING THE FIXTURE OR AREA SERVED. (NCPC 606.4)

14. PROVIDE SHUT-OFF VALVES ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, APPLIANCE, OR MECHANICAL EQUIPMENT.

15. WATER HEATER SHALL BE FILLED W/ WATER & PURGED AS SOON AS INSTALLED OR IN NO EVENT LATER THAN GAS/ELECTRIC HOOK-UP.

16. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT W/ MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, & CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS W/ OTHER PIPING, SATISFACTORY & PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT W/ OTHER METALS.

17. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY W/ ASPHALTIC ENAMEL & PROVIDING 15# ASPHALT SATURATED FELT BETWEEN THE PIPE & MASONRY.

18. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, & PARTITIONS. PIPE INSULATION SHALL BE MITERED AT ELBOWS & TEES TO ENSURE COMPLETE COVERAGE OF PIPING.

19. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.

20. THE PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER PROTECTION ON ALL WATER DISTRIBUTION PIPING SERVING EQUIPMENT W/ QUICK CLOSING VALVES (ICE MAKERS, DISHWASHERS, FLUSH VALVES, WASHING MACHINES, WATER COOLERS, ETC.) SEE SHOCK ARRESTOR SCHEDULE.

21. ACCESS DOORS TO BE PROVIDED FOR ALL VALVES & DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION. ACCESS DOORS TO BE RATED WHERE INSTALLED IN RATED ASSEMBLIES.

22. P.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, & SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT & THAT THE FORE MENTIONED DOES NOT INTERFERE W/ THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE W/ OTHER TRADE CONTRACTORS & CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.

23. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLUMBING EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK, THE PLUMBING CONTRACTOR SHALL CLEAN, WASH, ETC. ALL ITEMS & EQUIPMENT WITHIN HIS SCOPE OF WORK & LEAVE ALL ITEMS BRIGHT & CLEAN.

24. PROVIDE PRESSURE REDUCING VALVE IF INCOMING WATER PRESSURE EXCEEDS 80 PSI.

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE																			
MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	REMARKS
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
P-1	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	LEFT: 215CA.104 RIGHT: 3517C.101 & 4188A.105	VITREOUS CHINA	STANDARD ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	1/2"	-	FLOOR	PROVIDE CLOSED FRONT SEAT WITH LID.
P-1A	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	LEFT: 215AA.104 RIGHT: 215AA.105	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	1/2"	-	FLOOR	PROVIDE CLOSED FRONT SEAT WITH LID.
P-1B	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	LEFT: 215AA.104 RIGHT: 215AA.105	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	1/2"	-	FLOOR	PROVIDE OPEN FRONT SEAT WITH NO LID.
P-2A	LAVATORY	DROP IN	AMERICAN STANDARD	0476.028	VITREOUS CHINA	ADA COUNTER TOP	KOHLER K-20000-0 WHT	CENTER	LEVER	4" 3-HOLE	POP-UP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	1.2 GPM. BARRIER FREE.
P-2	LAVATORY	DROP IN	AMERICAN STANDARD	0476.028	VITREOUS CHINA	COUNTER TOP	KOHLER K-20000-0 WHT	CENTER	LEVER	4" 3-HOLE	POP-UP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	1.2 GPM. BARRIER FREE.
P-2B	LAVATORY	WALL MOUNT	AMERICAN STANDARD	0355.012	VITREOUS CHINA	ADA D-SHAPE	CFG 40717	CENTER	LEVER	4" 3-HOLE	GRID	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	WALL	W/ WALL BRACKET. W/ 0.5 GPM AERATOR. MOUNT AT ADA HEIGHT.
P-4	SHOWER (60 x 36 x 76)	STALL SHOWER	AQUATIC	16035TS	APPLIED ACRYLIC	STANDARD	SYMMONS 9601-PLR	-	LEVER	-	FLOOR	2"	-	2"	1-1/2"	1/2"	1/2"	-	W/ 2.0 GPM SHOWER HEAD. SHOWER VALVE LIMITED TO 120°F.
P-6	SINK (24" x 18.25")	UNDER MOUNT	STERLING	20023	STAINLESS STEEL	DOUBLE BOWL	DELTA 9159	CENTER	LEVER	SINGLE HOLE	CRUMB CUP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	BOWL DEPTH = 9"
P-6A	SINK (30.75" x 18.5")	UNDER MOUNT	ELKAY	ELUHAD311855	STAINLESS STEEL	ADA 2-BOWL	DELTA 9159	CENTER	LEVER	SINGLE HOLE	CRUMB CUP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	W/ OFFSET DRAIN, REAR CENTER. BOWL DEPTH = 5-3/8" W/ SPRAYER.
P-6B	SINK (33" x 22")	DROP-IN	ELKAY	DLR332210	STAINLESS STEEL	DOUBLE BOWL	CFG 40511	CENTER	LEVER	4" O.C. 3-HOLE	CRUMB CUP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	BOWL DEPTH = 10-1/8"
P-6C	SINK (31" x 22")	DROP-IN	ELKAY	DLR312210	STAINLESS STEEL	SINGLE BOWL	CFG 40511	CENTER	LEVER	4" O.C. 3-HOLE	CRUMB CUP	1-1/2"	BRASSCRAFT OCR1912A	2"	1-1/2"	1/2"	1/2"	COUNTER	BOWL DEPTH = 10-1/8"
FCO	FLOOR CLEANOUT	ADJUSTABLE	ZURN	CO-2450	PVC BODY, NICKEL CVR.	FINISHED FLOOR	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	
FD	FLOOR DRAIN	FINISHED FLOOR	ZURN	FD1	PVC	ADJUSTABLE	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DEEP SEAL TRAP.
FS	FLOOR SINK	6" DEEP	ZURN	FD-2375	CAST IRON, PORCELAIN ENAMEL	ANTI-SPLASH	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DOME STRAINER. W/ DEEP SEAL TRAP. W/ HALF GRATE
FPHB	HOSE BIB	EXPOSED, ANTI-SIPHON	ZURN	Z1346	BRONZE	NON-FREEZE	-	-	-	-	-	-	-	-	-	1/2"	-	WALL	VERIFY WALL DEPTH. INTEGRAL VACUUM BREAKER. LOOSE KEY TYPE.
HB	HOSE BIB	EXPOSED, ANTI-SIPHON	ZURN	Z1341	BRONZE	-	-	-	-	-	-	-	-	-	-	1/2"	-	WALL	INTEGRAL VACUUM BREAKER.
RD	COMBO-ROOF DRAIN	GRAVITY	ZURN	Z164	CAST IRON	-	-	-	-	-	-	-	-	SEE PLAN	-	-	-	ROOF	PRIM. & SEC. DRAINS SAME SIZE. COORD. REQ'D CLAMPS, FITTINGS, ETC. W/ ROOF CONSTRUCTION.
WCO	WALL CLEANOUT	TEE	CHARLOTTE PIPE	PVC-445	PVC	FLUSH PLUG	-	-	-	-	-	-	-	SEE PLAN	-	-	-	WALL	W/ ZURN CO-2530 WALL COVER. W/ PVC PLUG W/ THREADED TAP.
GCO	GRADE CLEANOUT	ADJUSTABLE	ZURN	CO-2450	PVC BODY, NICKEL CVR.	-	-	-	-	-	-	-	-	SEE PLAN	-	-	-	GRADE	W/ CONCRETE PAD.
WH-1	WATER HEATER	GAS DIR. VENT	AO SMITH	8TH-199(A) (W/ CONDENSATE NEUTRALIZER KIT)	GLASS LINED	UPRIGHT	-	-	-	-	-	-	-	-	-	1-1/2"	1-1/2"	FLOOR	100 GAL. 199 MBH. 115V. 294 GPH @ 80°F RISE. SET TO 140°F. W/ TV-2 W/ DIRECT VENT. SEE DETAIL.
WH-2	WATER HEATER	DIR. VENT GAS	RINNAI WATER HEATERS	CU199I (W/ CONDENSATE NEUTRALIZER KIT)	TANKLESS GAS	WALL MTD.	-	-	-	-	-	-	-	-	-	3/4"	3/4"	WALL	199 MBH INPUT. 115V. 4.7GPM @ 100°F RISE. SET TO 140°F. SEE DETAIL.
WH-3	WATER HEATER	DIR. VENT GAS	RINNAI WATER HEATERS	CU199I (W/ CONDENSATE NEUTRALIZER KIT)	TANKLESS GAS	WALL MTD.	-	-	-	-	-	-	-	-	-	3/4"	3/4"	WALL	199 MBH INPUT. 115V. 4.7GPM @ 100°F RISE. SET TO 140°F. SEE DETAIL.

- NOTES:
1. ALL FIXTURE COLORS & FINISHES TO BE APPROVED BY OWNER & ARCHITECT BEFORE PURCHASING.

2. PROVIDE P-TRAP AND SUPPLY LINE SAFETY COVERS FOR ALL ADA SINK AND LAVATORY INSTALLATIONS.

3. WATER CLOSET HANDLES TO BE LOCATED ON "WIDE SIDE" OF TALL FOR ADA FIXTURES.

4. SEE DETAIL SHEET FOR ADDITIONAL ITEMS TO BE PROVIDED/INSTALLED W/ FIXTURES LISTED ABOVE.

SHOCK ARRESTOR SCHEDULE		
FIXTURE UNITS	UNIT SIZE (CONN. SIZE)	MFG & MODEL (OR EQUAL)
1-4	AA (1/2")	SIoux CHIEF "MINI-RESTER"
5-11	A (1/2")	SIoux CHIEF "HYDRA-RESTER"
12 - 32	B (3/4")	SIoux CHIEF "HYDRA-RESTER"
NOTES: 1. LOCATE SHOCK ARRESTORS IN ACCESSIBLE LOCATION OR PROVIDE SHOCK ARRESTORS THAT ALLOW CONCEALMENT PER MANUFACTURER'S GUIDELINES. 2. SEE PLAN, RISERS, & SCHEDULES FOR ARRESTOR LOCATIONS. IF LOCATION NOT INDICATED, INSTALL IN ACCORDANCE W/ MANUFACTURER'S GUIDELINES. 3. SHOCK ARRESTORS NOT REQUIRED ON PLASTIC PIPE PER 2018 NCPC 604.9.		

VALVE SCHEDULE		
TAG	DESCRIPTION	MFG & MODEL (OR EQUAL)
BV-1	FULL-PORT BALL VALVE	WATTS LFB6081 (1/2" TO 2")
BV-2	BALANCING VALVE	WATTS LFCSM-61-S (1/2" TO 2")
CV-1	DUAL CHECK VALVE	WATTS SD-2 (ASSE 1032; <1/2") WATTS LFPD (ASSE 1012; 1/2" & 3/4")
PRV-1	PRESS. RED. VALVE	WATTS LP223-S (SET TO 70 PSI; ASSE 1003; 1/2" TO 2-1/2")
TV-1	IND. THERMO. MIX. VALVE	WATTS LFUSG-B (0.25 TO 2.5 GPM; 3/8") (SET TO 100°F DISCHARGE; ASSE 1070)
TV-2	THERMO. MIX. VALVE	WATTS LFMV (0.5 TO 20 GPM; 1/2" TO 1") (SET TO 120°F DISCHARGE)
NOTES: 1. SEE PLAN FOR SIZE, VALVE SIZE TO EQUAL LINE SIZE. 2. BALL VALVES TO INCLUDE REMOVABLE HANDLES. 3. IF AVAILABLE, VALVES MAY BE THREADED OR SWEATED CONNECTIONS. USE EXTREME CARE & LOW TEMP SOLDER TO PROTECT VALVE SEATS IF SWEATED CONNECTIONS ARE USED.		

PLUMBING LEGEND	
----- DOMESTIC COLD WATER PIPING	ABV ABOVE
----- DOMESTIC HOT WATER PIPING	AHJ AUTHORITY HAVING JURISDICTION
----- HWR DOMESTIC HOT WATER RETURN	AFB ABOVE FINISHED FLOOR
----- VENT PIPING	BFB BELOW FINISHED FLOOR
----- WASTE (SANITARY SEWER) PIPING	BV BALL OR BALANCING VALVE (SEE SCHED)
----- GW WASTE (GREASE) PIPING	CV CHECK VALVE
----- SD STORM PIPING	CW COLD WATER
----- VALVE	DN DOWN
----- VALVE	E.C. ELECTRICAL SUB-CONTRACTOR
----- CHECK VALVE	FCO FLOOR CLEAN OUT
----- PIPE UP/DOWN	FD FLOOR DRAIN
----- FLOOR DRAIN	FR FROM
----- FLOOR SINK	FS FLOOR SINK
----- CLEANOUT	G.C. GENERAL CONTRACTOR
----- ELEVATOR SUMP PUMP	HB HOSE BIBB
	HD HUB DRAIN
	HW HOT WATER
	M.C. MECHANICAL SUB-CONTRACTOR
	P.C. PLUMBING SUB-CONTRACTOR
	PRV PRESSURE REDUCING VALVE
	SS SANITARY SEWER
	TV TEMPERING VALVE
	WH WATER HEATER

PLUMBING FIXTURE REQUIREMENTS						
WASTE			WATER			
BUILDING DRAIN SIZE	NUMBER OF BUILDING DRAINS	TOTAL FIXTURE UNIT LOAD	WATER SERVICE SIZE	NUMBER OF WATER SERVICES	TOTAL FIXTURE UNIT LOAD	NOTES
6"	1	255	2"	1	228	-

LINT SEPARATOR (LS-1) SPEC		
1. LINT SEPARATOR TO BE EQUAL TO STRIEM AA-M. 2. 4" INLET AND OUTLET. 3. LIQUID CAPACITY = 38 GALLONS (HIGH LEVEL). 4. SOLIDS CAPACITY = 6 GALLONS. 5. INSTALL PER MANUFACTURER'S INSTRUCTIONS.		
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new
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C:\Users\jdoe\OneDrive - Barton Associates\OneDrive\Documents\2024\144-00 CARING HOUSE MEET REQ. 08082024.rvt

CARING HOUSE EXPANSION

2586 PICKETT RD
DURHAM NC

DD PROGRESS SET

PROJECT NUMBER 7999

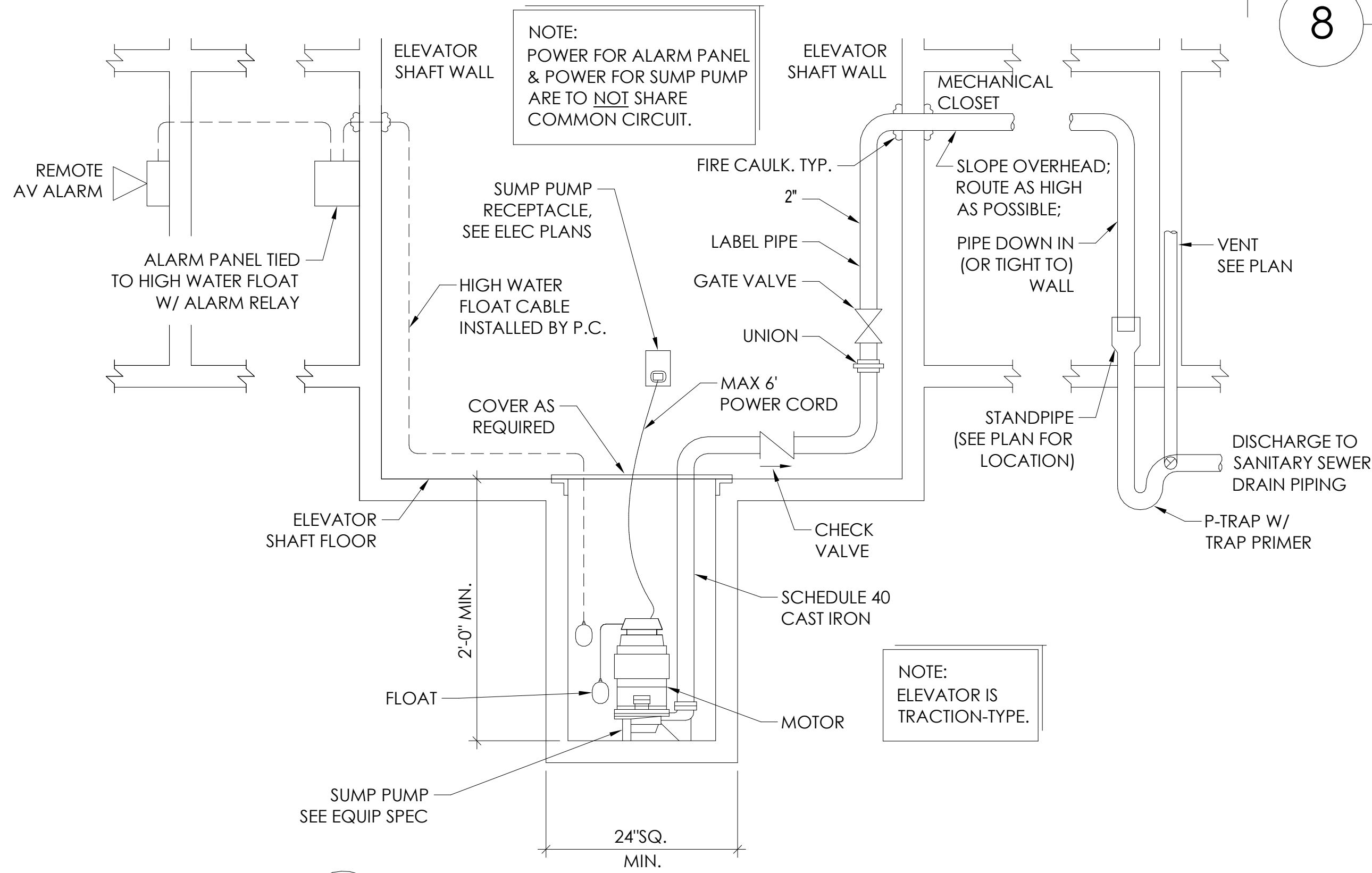
SHEET TITLE
PLUMBING
SCHEDULES,
NOTES LEGENDS

SHEET NUMBER
P001

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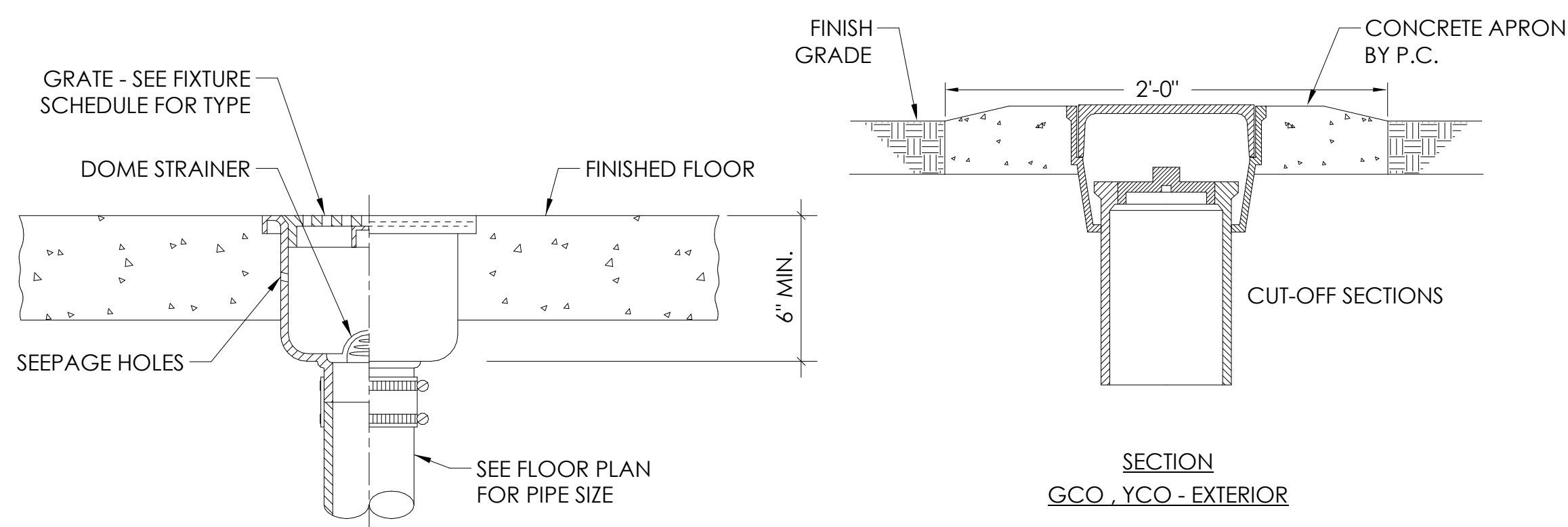
ELEV. SUMP PUMP (SP-1) SPEC

1. SUMP PUMP EQUAL TO ZOELLER "DOSE-MATE" MODEL 153 SUBMERSIBLE EFFLUENT PUMP, 120V, 10.5 AMPS, W/ A CAPACITY OF 50GPM (3000 GPH) AT 22FT HEAD.
2. PROVIDE W/ OPTIONAL PUMP STAND & FLOAT SWITCH.
3. PROVIDE W/ REMOTE INDOOR/OUTDOOR ALARM SYSTEM EQUAL TO ZOELLER MODEL 10-0126, NEMA 4X ENCLOSURE, AUXILIARY CONTACTS, AUDIO/VISUAL ALARM, W/ HIGH WATER LEVEL ALARM FLOAT/SWITCH.
4. STANDARD CABLE LENGTH = 20FT. OPTIONAL CABLE LENGTHS = 25FT OR 35FT. P.C. TO FIELD COORDINATE.



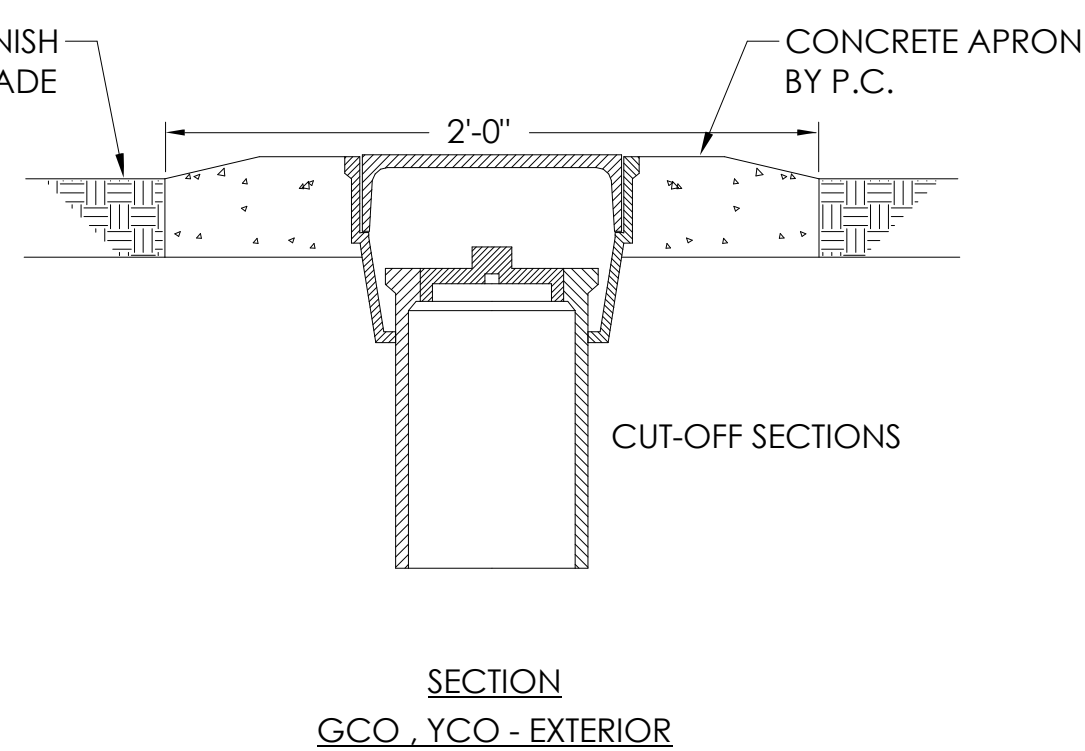
7 ELEVATOR SUMP PUMP DETAIL

NO SCALE



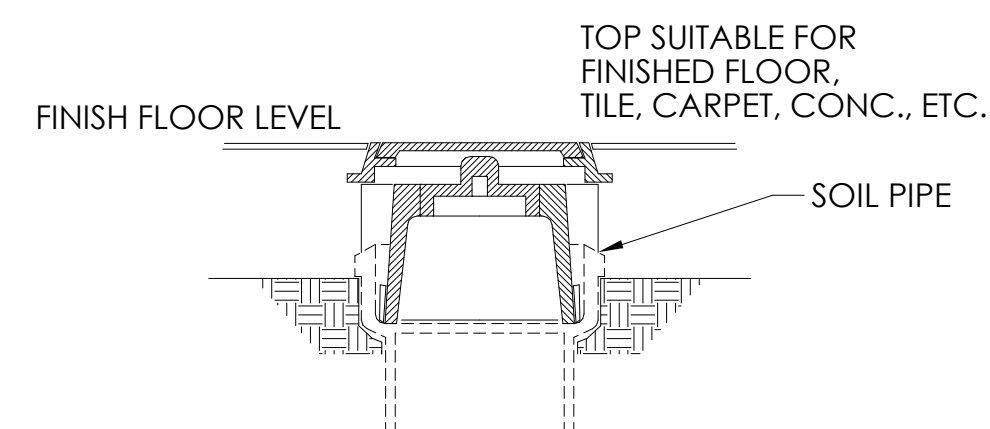
5 FLOOR SINK DETAIL

NO SCALE



4 EXTERIOR CLEANOUT DETAIL

NO SCALE

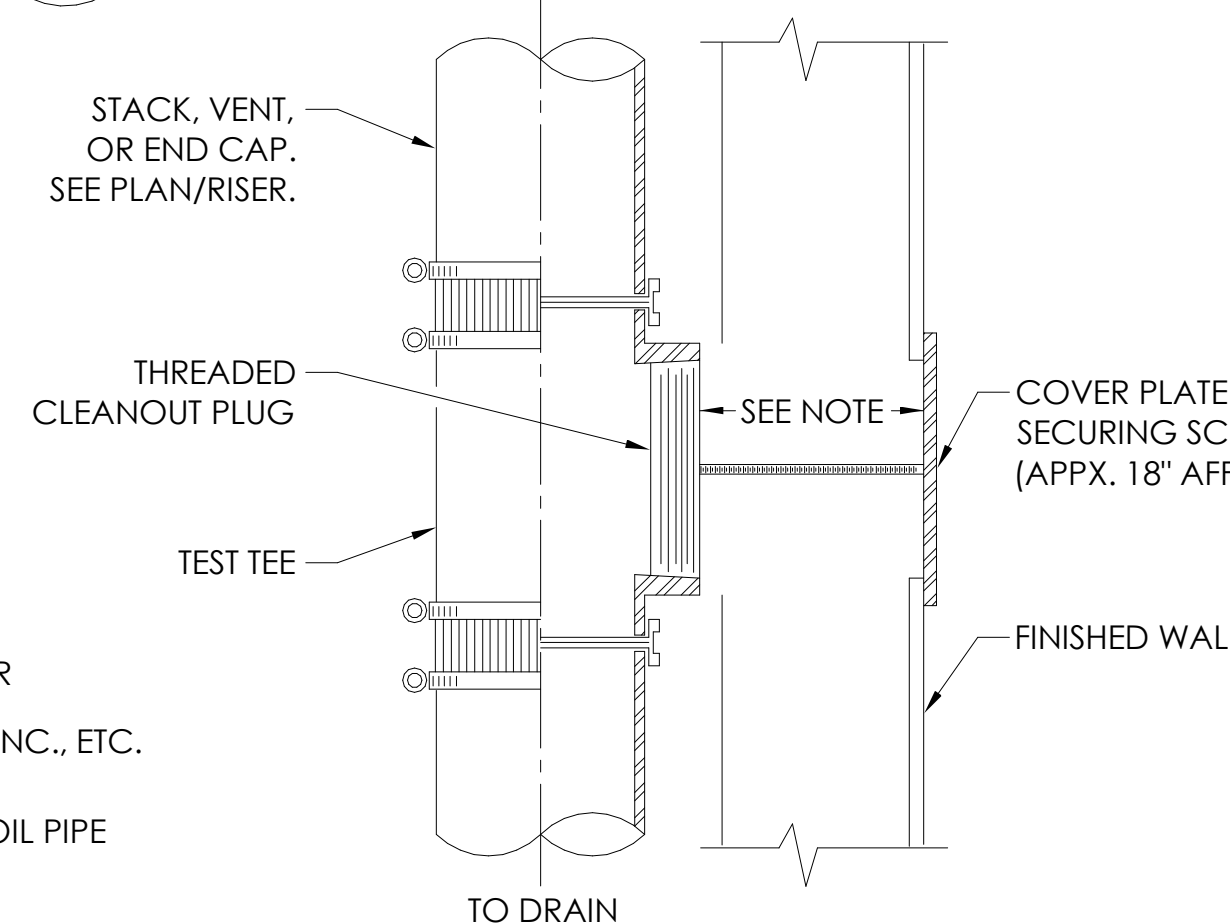
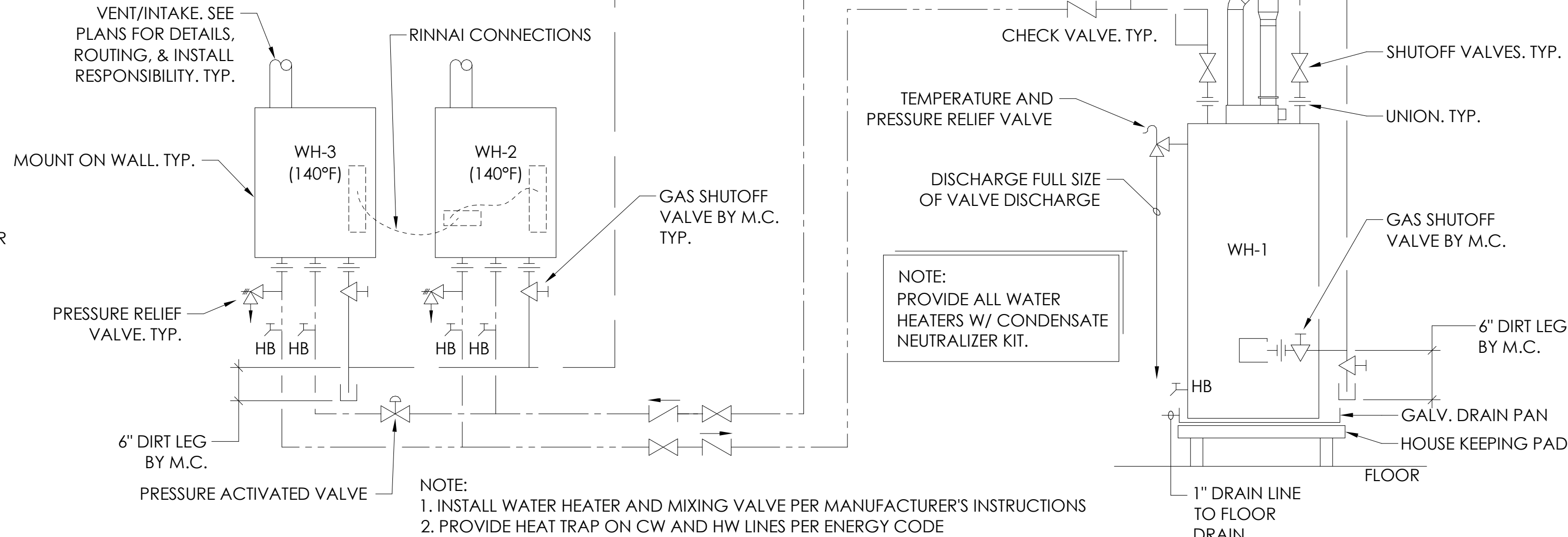


3 FLOOR CLEANOUT DETAIL

NO SCALE

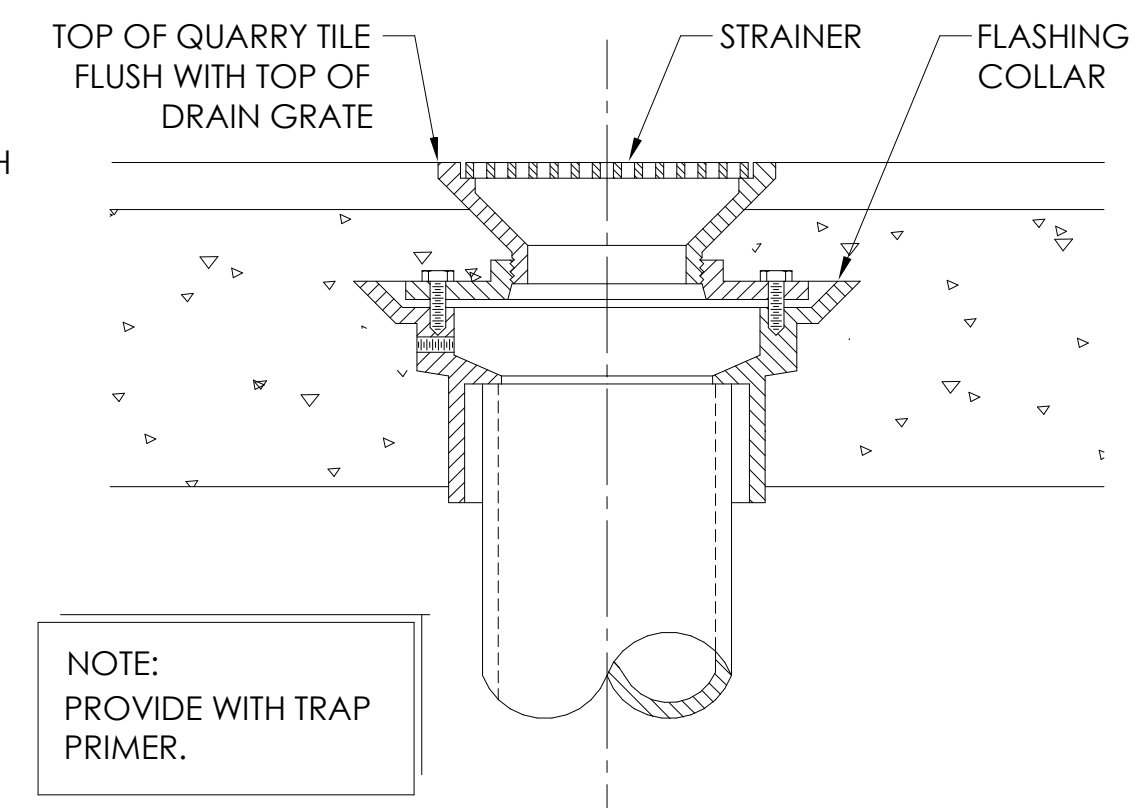
6 TANK & INSTANTANEOUS WATER HEATER DETAIL (WH-1, WH-2, WH-3)

NO SCALE



2 WALL CLEANOUT DETAIL

NO SCALE



1 FLOOR DRAIN DETAIL

NO SCALE

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CARING HOUSE EXPANSION
2566 PICKETT RD
DURHAM NC

DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE
SECOND FLOOR
PLAN - DOMESTIC
WATER

SHEET NUMBER

P102

NOTES

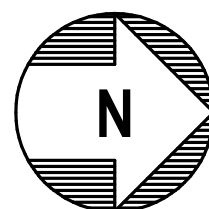
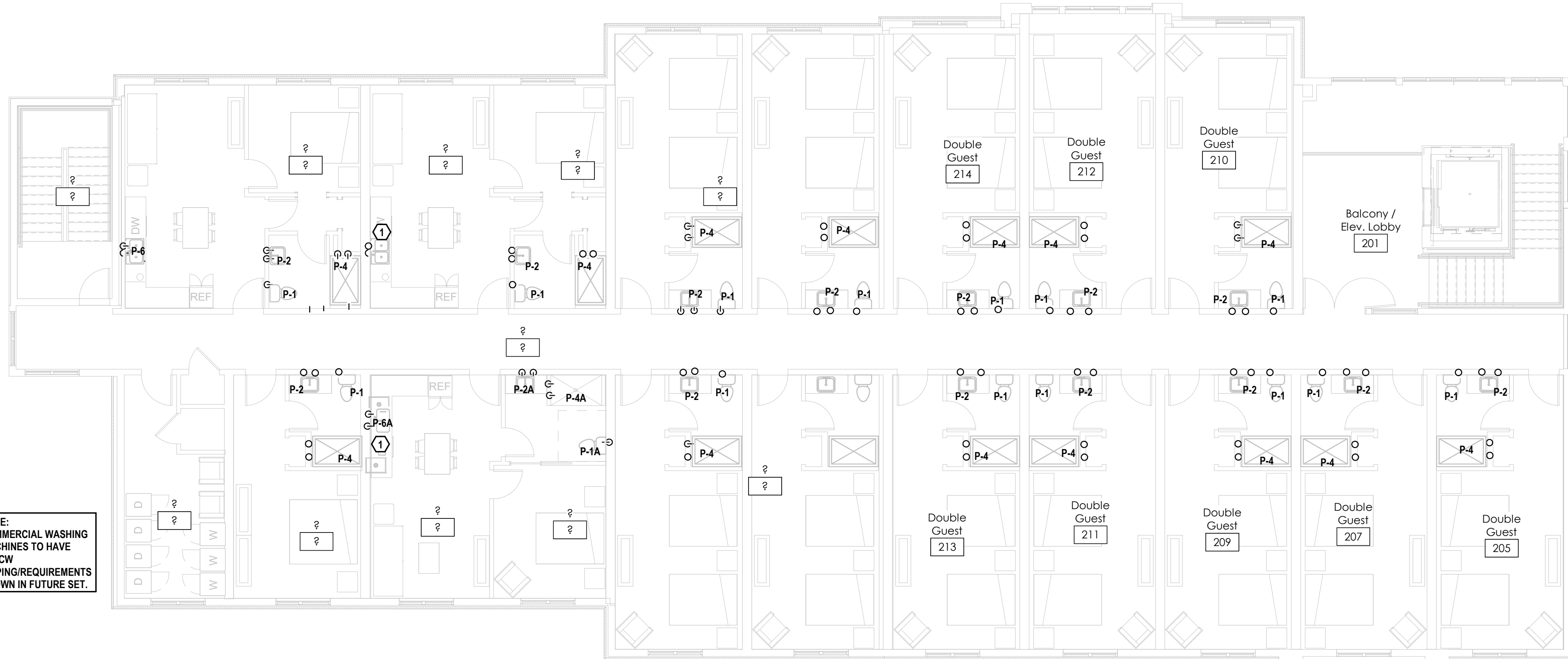
1 PROVIDE DISHWASHER CONNECTIONS.

NOTE:
ALL WATER
PIPPING TO
SERVE FIXTURES
FROM BELOW.

NOTE:
FINAL/COMPLETE
DESIGN
TO BE SHOWN IN
FUTURE SET.

NOTE:
CORRIDOR HALLS AND
RESIDENT ROOMS ARE 1-HOUR
RATED. CEILING ASSEMBLY IS 1-
HOUR RATED. RAITINGS TO BE
SHOWN IN FUTURE SETS.

NOTE:
COMMERCIAL WASHING
MACHINES TO HAVE
HWCW
PIPPING/REQUIREMENTS
SHOWN IN FUTURE SET.



SECOND FLOOR PLAN – DOMESTIC WATER

SCALE: 1/8" = 1'-0"

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CARING HOUSE EXPANSION
2566 PICKETT RD
DURHAM NC
DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE

GROUND FLOOR
PLAN - WASTE

SHEET NUMBER

P201

NOTES

- 1 LINT SEPARATOR, LS-1, TO BE INSTALLED BELOW GRADE. COORDINATE EXACT LOCATION WITH G.C..
- 2 PROVIDE DISHWASHER CONNECTIONS.
- 3 PROVIDE WITH TRAP PRIMER FROM AREA CW LINE.
- 4 PROVIDE RECESSED AY ALARM 48" ABOVE FINISHED FLOOR. ALARM TO BE WIRED TO AREA ALARM PANEL RELAY. SEE DETAIL.
- 5 ELEVATOR SUMP PUMP ALARM PANEL. INSTALL PER MFG'S INSTRUCTIONS. COORDINATE W/ E.C..
- 6 ELEVATOR SUMP PUMP DISCHARGE DOWN ALONG WALL TO STANDPIPE. COORDINATE LOCATION OF STANDPIPE W/ AREA EQUIPMENT. PROVIDE STANDPIPE W/ P-TRAP (W/ TRAP PRIMER FROM AREA CW LINE) & VENT. DISCHARGE TO CONTINUE TO SANITARY SEWER.
- 7 ELEVATOR SUMP PUMP DISCHARGE UP TO OVERHEAD. ROUTE TO STANDPIPE IN MECHANICAL CLOSET.
- 8 WASTE STACK DOWN IN WALL TO BELOW SLAB. PROVIDE WITH WALL CLEANOUT AT BASE OF STACK.

NOTE:
CORRIDOR HALLS AND
RESIDENT ROOMS ARE 1-HOUR
RATED. CEILING ASSEMBLY IS 1-
HOUR RATED. RAITINGS TO BE
SHOWN IN FUTURE SETS

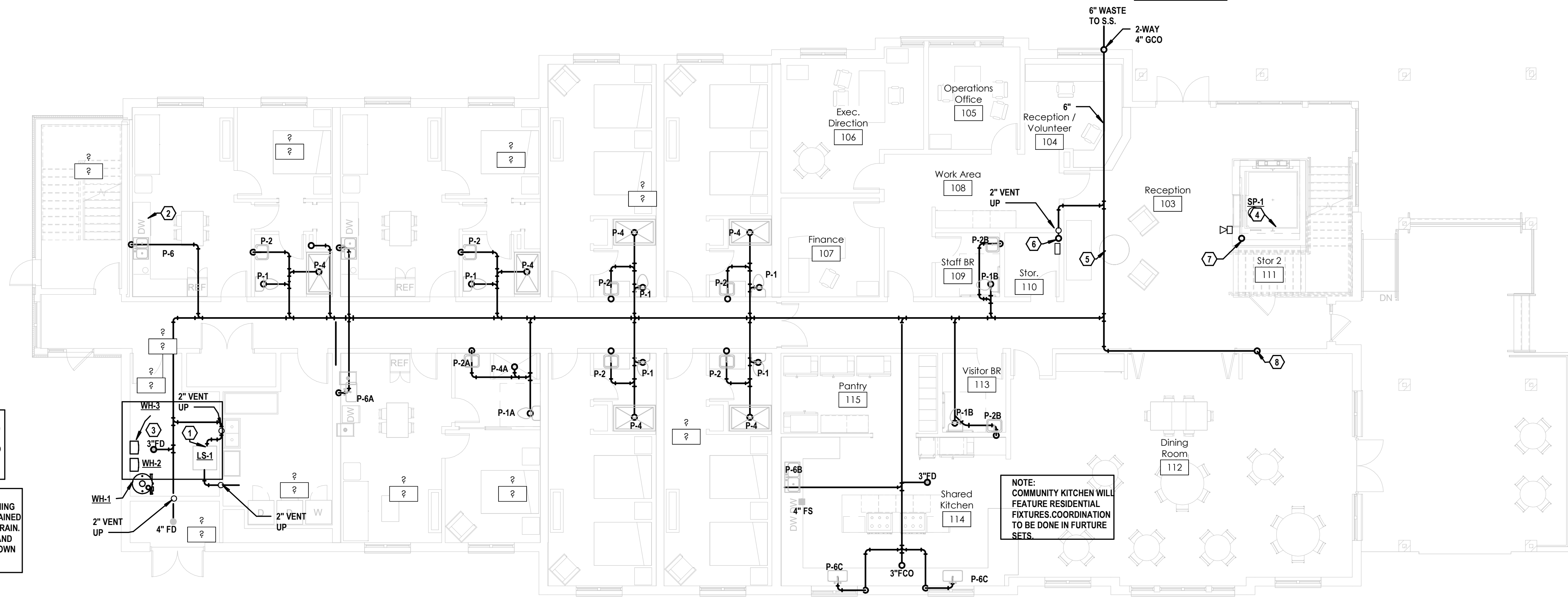
NOTE:
ALL LAUNDRY
MACHINE WASTE
DISCHARGE TO BE
ROUTED TO LINT
SEPARATOR

NOTE:
FINAL/COMPLETE
SANITARY AND
VENT DESIGN
TO BE SHOWN IN
FUTURE SET.

NOTE:
CONFIRM EXACT SIZE,
LOCATION, INVERT, &
DIRECTION OF UTILITY
CONNECTIONS BEFORE
BEGINNING WORK.

NOTE:
WATER HEATER VENT(S)
TO BE TERMINATED AT
SIDE WALL. ROUTING TO
BE SHOWN IN FUTURE
SET.

NOTE:
COMMERCIAL WASHING
MACHINE TO BE DRAINED
TO AREA TRENCH DRAIN.
SIZING, LOCATION AND
ROUTING TO BE SHOWN
IN FUTURE SET.



GROUND FLOOR PLAN – WASTE
SCALE: 1/8" = 1'-0"

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CARING HOUSE EXPANSION
2566 PICKETT RD
DURHAM NC
DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE

SECOND FLOOR
PLAN - WASTE

SHEET NUMBER

P202

NOTES

- 1 WASTE STACK DOWN TO FLOOR BELOW. STACK TO CAPTURE WASTE FROM AREA PLUMBING FIXTURES.

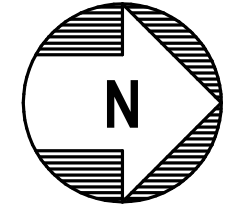
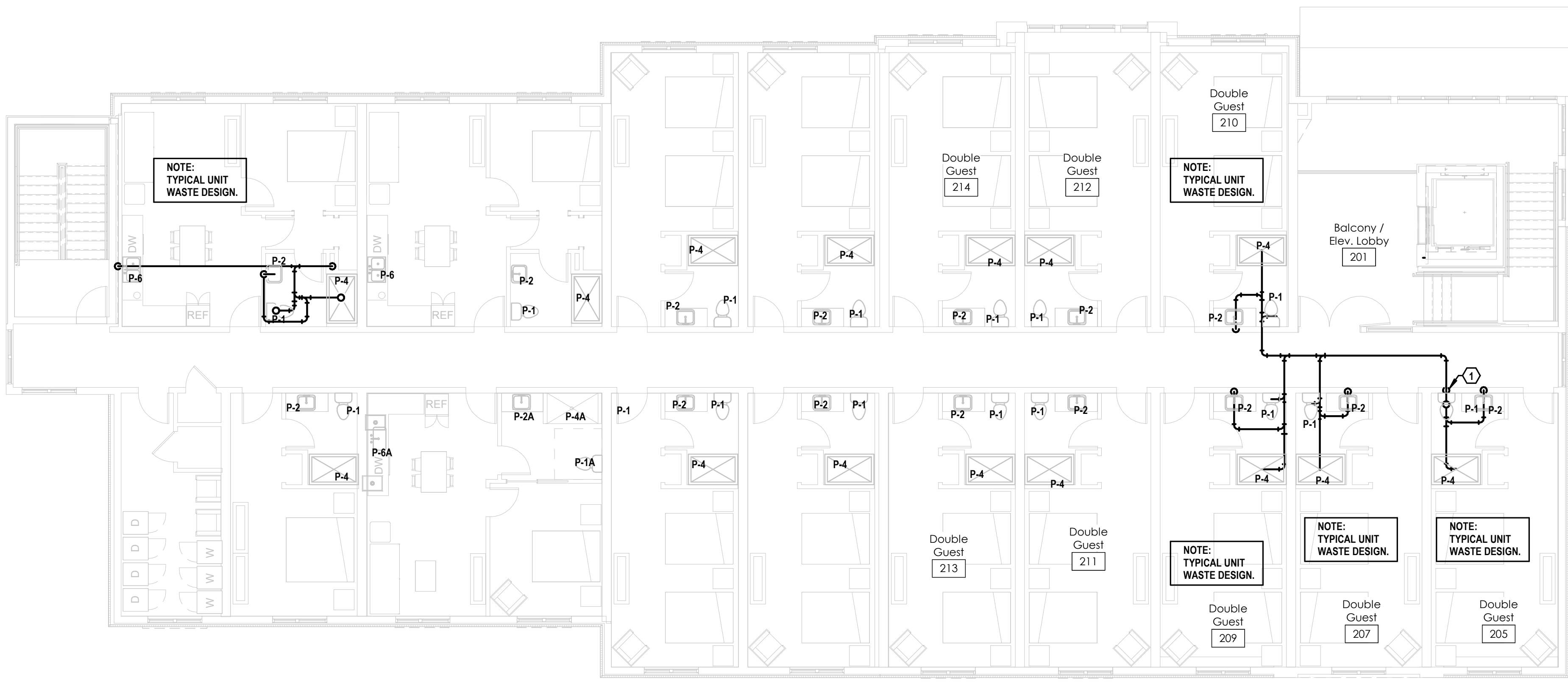
NOTE:
ALL UNIT WASTE LINES TO BE ROUTED TO AREA WASTE STACK. FINAL/COMPLETE SANITARY AND VENT DESIGN TO BE SHOWN IN FUTURE SET.

NOTE:
CORRIDOR HALLS AND RESIDENT ROOMS ARE 1-HOUR RATED. CEILING ASSEMBLY IS 1-HOUR RATED. RAFTINGS TO BE SHOWN IN FUTURE SETS.

NOTE:
TYPICAL UNIT WASTE DESIGN.

NOTE:
TYPICAL UNIT WASTE DESIGN.

NOTE:
COMMERCIAL WASHING MACHINE TO BE DRAINED TO AREA TRENCH DRAIN. SIZING, LOCATION AND ROUTING TO BE SHOWN IN FUTURE SET. TRENCH DRAIN DISCHARGE TO BE ROUTED TO LIMIT SEPARATOR ON GROUND FLOOR BEFORE CONNECTING TO MAIN BLDG. WASTE LINE.



SECOND FLOOR PLAN -WASTE
SCALE: 1/8" = 1'-0"

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CARING HOUSE EXPANSION
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DURHAM NC

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PROJECT NUMBER 7999

SHEET TITLE

ROOF PLAN -
SANITARY & VENT

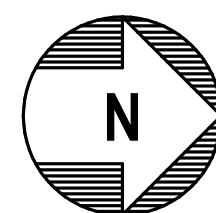
SHEET NUMBER

P203



NOTE:
ROOF DRAINAGE
DESIGN TO BE
SHOWN IN
FUTURE SET.

NOTE:
ROOF DRAINAGE SYSTEM TO
COMPRISE OF 3 COMBO
PRIMARY/SECONDARY DRAINS.



ROOF PLAN — SANITARY & VENT

SCALE: 1/8" = 1'-0"

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GENERAL HVAC NOTES

GENERAL REQUIREMENTS:

- MECHANICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH NC MECHANICAL CODES AND ALL OTHER APPLICABLE CODES. MC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
- ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE. IF LONGER, ALL COMPRESSORS ARE TO INCLUDE FIVE (5) YEAR WARRANTY. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR CLEAR DUCT DIMENSIONS AND DO NOT INCLUDE REQUIRED ADJUSTMENTS FOR INSULATION. IF EXTERNAL INSULATION IS TO BE USED THE ACTUAL METAL DUCT DIMENSIONS SHALL MATCH THE DUCT DIMENSIONS SHOWN. INTERNAL INSULATION IS TO BE USED. THE ACTUAL METAL DUCT DIMENSIONS MUST BE INCREASED SO THAT THE INSIDE CLEAR DIMENSION (INSULATION FACE TO INSULATION FACE) MATCHES THE DIMENSIONS SHOWN ON THE PLAN.
- INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL. IF, IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
- BEFORE BID MC IS RESPONSIBLE FOR CLARIFYING W/ G.C., ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED, THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
- AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED THE MC SHALL PROVIDE SUBMITTALS OF MECHANICAL EQUIPMENT HE/HSE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
- ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
- UPON COMPLETION OF WORK M.C. IS TO PROVIDE OWNER W/ COMPLETE BOUND SET OF ALL EQUIPMENT OPERATION & MAINTENANCE MANUALS, PACKAGE IS ALSO TO INCLUDE AND WARRANTY & GUARANTEE INFORMATION.
- M.C. IS TO PROVIDE TRAINING TO OWNER OR OWNER'S REPRESENTATIVE IN REGARDS TO OPERATION, FUNCTION, AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, CONTROLS, ETC.
- M.C. IS TO REVIEW COMPLETE DRAWING SET. M.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED.

DIVISION OF WORK:

- ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ROOFTOP UNIT CURB INSULATION, OTHER LARGE CURB INSULATION, ETC ARE TO BE PERFORMED BY ROOFING CONTRACTOR. M.C. RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC AND COMMUNICATING ALL REQ'S WITH G.C. & ROOFING CONTRACTOR.
- ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
- MECHANICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF MECHANICAL EQUIPMENT & SYSTEMS.
- G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED DUCT, PIPING, GRILLES, ETC. M.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT. COORDINATE W/ G.C.
- ALL GAS PIPING IS BY MECHANICAL CONTRACTOR. SEE GAS MATERIAL AND EXECUTION NOTES.
- WATER HEATER VENT BY PLUMBING CONTRACTOR.

COORDINATION:

- THE MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE MECHANICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC).
- M.C. TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS W/ ROOFING CONTRACTOR. P.C. & M.C. TO COORDINATE TO ENSURE NO PLUMBING VENTS OR ANY OTHER SOURCES OF BUILDING EXHAUST ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES.

MATERIALS:

- ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.
- ALL MATERIALS INSTALLED IN RETURN PLENUM ARE TO BE PLENUM RATED.
- PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY 2018 NC MECHANICAL CODE.
- ALL MAIN DUCTWORK (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
- RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1.
 - FLEXIBLE AIR DUCT SHALL BE LIMITED TO 14" IN LENGTH.
 - FLEXIBLE AIR CONNECTORS SHALL BE LIMITED TO 14" IN LENGTH, FLEXIBLE AIR CONNECTORS SHALL NOT PASS THROUGH ANY WALL, FLOOR OR CEILING.
- NO FLEXIBLE DUCT ALLOWED FOR NEGATIVE PRESSURE EXHAUST APPLICATIONS.
- IN COMMERCIAL BUILDINGS AND GROUP R-2, R-3 AND R-4 BUILDINGS 4 STORIES OR MORE IN HEIGHT ABOVE GRADE: INSULATION OF DUCTWORK IN UNCONDITIONED SPACE INSIDE THE BUILDING SHALL BE MINIMUM R-4 PER 2018 NCECC. INSULATION ON SUPPLY DUCTS LOCATED INSIDE CONDITIONED SPACE SHALL BE R-2.2 MINIMUM. RETURN DUCTS WITHIN CONDITIONED SPACE TO BE UNINSULATED. ALL NOTES ON INSULATION ABOVE ARE APPLICABLE UNLESS NOTED OTHERWISE ON THE MECHANICAL PLAN(S).
- CONCEALED SHEET METAL SUPPLY & RETURN DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH ACOUSTICAL DUCT LINER.
- ALL MAIN DUCTWORK (INCLUDING EXHAUST) TO BE SEALED ACCORDING TO NCECC AND AT A MINIMUM INCLUDE SEALING OF ALL DUCT SEAMS W/ NON-HARDENING MASTIC. SEALING BY TAPE ALONE NOT ALLOWED. DO NOT SEAL EXPOSED SPRAY SUPPLY & RETURN DUCTWORK.
- DUCTWORK ELBOWS SHALL BE FULL RADIUS OR MITERED WITH TURNING VANES.
- CONDENSATE DRAIN PIPING AND FITTINGS NOT IN A RETURN PLENUM SHALL BE SCHEDULE 40 PVC. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED (2" MINIMUM). TRAPS ON INTERIOR OF BUILDINGS TO BE INSULATED. PIPING IN RETURN PLENUM TO BE COPPER OR PLENUM RATED CPVC.
- KITCHEN HOOD EXHAUST DUCT SHALL BE 1/4 GAUGE CARBON STEEL OR 18 GAUGE STAINLESS STEEL. ALL JOINTS AND SEAMS SHALL BE CONSTRUCTED WITH A CONTINUOUS LIQUID-TIGHT EXTERNAL WELD.
- "FIRE WRAP" OR OTHER CLEARANCE REDUCING INSULATION INSTALLED ON GREASE EXHAUST DUCT TO BE EQUAL TO "3M FIRE BARRIER DUCT WRAP 615+".
- ALL DUCTWORK WITHIN 18" OF TYPE I HOODS TO BE SHEET METAL WITH NON-COMBUSTIBLE LINING/INSULATION.
- VENT MATERIAL SERVING ANY GAS FIRED APPLIANCE TO BE LISTED & LABELED, PER MFG'S INSTRUCTIONS AND 2018 NC MECHANICAL CODE. IF CONFLICT IS NOTED CONTACT ENGINEER.
- ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION.
- ALL PROGRAMMABLE THERMOSTATS TO INCLUDE BATTERY BACK-UP AND HAVE CAPABILITY TO SETBACK TO 55°F (HEATING) & 65°F (COOLING). AUTO-CHANGEOVER THERMOSTATS TO HAVE A MIN. 5" DEADBAND.

EXECUTION:

- M.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR.
- INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND IN ACCORDANCE W/ 2018 NCECC. CAB2.2.2. M.C. TO PROVIDE OWNER'S REPRESENTATIVE & ENGINEER WITH COMPLETE BALANCE REPORT. MC RESPONSIBLE FOR PROVIDING ANY DAMPERS, VALVES, PORTS, ETC. NECESSARY FOR A COMPLETE SYSTEM BALANCE.
- PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
- SUPPORT ALL DUCTWORK AND PIPING IN ACCORDANCE W/ 2018 NC MECHANICAL CODE. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
- PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2018 NCECC. ALL PENETRATIONS OF WALLS, FLOORS & CEILINGS IN RETURN OR EXHAUST PLENUMS SHALL BE SEALED IN AN AIR TIGHT MANNER.
- DUCT ACCESS DOORS TO BE PROVIDED AT ALL FIRE, RADIATION & SMOKE DAMPERS, SMOKE DETECTORS, CLEANOUTS AND ANY OTHER CODE REQUIRED LOCATIONS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MECHANICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE MECHANICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
- M.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, AND SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT AND THAT THE FORE MENTIONED DOES NOT INTERFERE WITH THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE WITH OTHER TRADE CONTRACTORS AND CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.

AIR HANDLING UNIT DATA															HEAT PUMP								
			FAN DATA			COOLING		HEAT	AUX.	ELECTRICAL DATA			WEIGHT	GENERAL DATA			ELECTRICAL DATA			WEIGHT			
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT (KW@208)	VOLTAGE (V/PH)	MCA (A)	MOCp (A)	WEIGHT (LBS)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCp (A)	WEIGHT (LBS)	NOTES
AH-1	OFFICES	TRANE GAMSBOC48	1600	0.5	3/4	115	48.0	38.4	48.0	7.20	208V/3	32.0	35	186	HP-1	TRANE 4TWA4048	4.0	14.0	208V/3	18.0	30	261	1,2,3,4,6,7,8,9,12
AH-2	DINING	TRANE GAMSBOC60	2000	0.5	1.0	280	60.0	48.0	60.0	10.80	208V/3	46.0	50	190	HP-2	TRANE 4TWA4060	5.0	14.0	208V/3	21.0	35	248	1,2,3,4,5,6,7,8,9
AH-4	CORRIDOR	TRANE GAMSBOA18	600	0.5	1/3	60	18.0	14.4	18.0	3.60	208V/1	25.0	25	140	HP-4	TRANE 4TWR4018	1.5	14.0	208V/1	12.0	20	141	1,2,3,4,5,6,7,8,9,11
AH-5	CORRIDOR	TRANE GAMSBOB36	1200	0.5	1/2	65	36.0	28.8	36.0	7.20	208V/3	30.0	30	162	HP-5	TRANE 4TWA4036	3.0	14.0	208V/3	13.0	20	208	1,2,3,4,5,6,7,8,9,11

1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.	6. OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING.
2. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. MFG.'S LONG LINESET KIT TO BE PROVIDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.	7. PROVIDE BI-FLOW TXV FOR HEAT PUMP OPERATION.
3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.	8. OUTDOOR THERMOSTAT TO LOCK-OUT ELECTRIC HEAT WHEN TEMPERATURE IS 40°F OR HIGHER. PROVIDE UNIT WITH EMERGENCY HEAT OVERRIDE OPTION.
4. PROVIDE 3 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION, ONE PRIOR TO AIR BALANCE AND ONE AT TURNOVER TO OWNER.	9. CYCLE PROTECTOR AND TIME DELAY RELAY (IF AVAILABLE).
5. PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT/HUMIDISTAT W/ MANUAL OVERRIDE. UNIT TO UTILIZE REHEAT BASED HUMIDITY CONTROL. SET RH TO 60%.	10. PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT W/ MANUAL OVERRIDE.
	11. SUPPLY FAN TO OPERATE CONTINUOUSLY.
	12. PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT W/ MANUAL OVERRIDE & WIRELESS REMOTE TEMPERATURE SENSOR.

AIR HANDLING UNIT DATA														HEAT PUMP								
FAN DATA				COOLING		HEAT	ELECTRICAL DATA			WEIGHT	GENERAL DATA				ELECTRICAL DATA			WEIGHT				
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (WATTS)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	WEIGHT (LBS)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	WEIGHT (LBS)	NOTES
AH-7A	COMM. LAUNDRY	MITSUBISHI MSZ-GL12NA	145 235 400	N/A	30	N/A	12.0	9.6	14.4	208/1	1.0	NOTE 2	22	HP-7	MITSUBISHI MXZ-3C24	2.0	20.0	208/1	22.1	25.0	142	1,2,3,4,5,6,7,8
AH-7B	2ND FLR. LAUNDRY	MITSUBISHI MSZ-GL12NA	145 235 400	N/A	30	N/A	12.0	9.6	14.4	208/1	1.0	NOTE 2	22									
AH-8	STAIRWAY	MITSUBISHI PKA-A12LA	320 370 425	N/A	30	N/A	12.0	9.7	14.0	208/1	1.0	NOTE 2	28	HP-8	MITSUBISHI PUZ-A12N	1.0	20.8	208/1	12.0	15.0	93	1,2,3,4,5,6,7
AH-9A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-9	MITSUBISHI MXZ-3C30	2.5	19.0	208/1	22.1	25.0	142	1,2,3,4,5,6,8
AH-9B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-9C	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-10A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-10	MITSUBISHI MXZ-3C30	2.5	19.0	208/1	22.1	25.0	142	1,2,3,4,5,6,8
AH-10B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-11A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-11	MITSUBISHI MXZ-2C20	1.66	20.0	208/1	17.2	20.0	126	1,2,3,4,5,6,8
AH-11B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-12A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-12	MITSUBISHI MXZ-4C36	3.0	19.2	208/1	23.1	25.0	143	1,2,3,4,5,6,8
AH-12B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-12C	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-12D	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-13A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-13	MITSUBISHI MXZ-4C36	3.0	19.2	208/1	23.1	25.0	143	1,2,3,4,5,6,8
AH-13B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-13C	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-14A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-14	MITSUBISHI MXZ-4C36	3.0	19.2	208/1	23.1	25.0	143	1,2,3,4,5,6,8
AH-14B	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-14C	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58									
AH-14D	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1	1.0	NOTE 2	58	HP-15	MITSUBISHI MXZ-3C30	2.5	19.0	208/1	22.1	25.0	142	1,2,3,4,5,6,8
AH-15A	GUEST ROOM	MITSUBISHI PEAD-A09	353	N/A	121	-	9.0	7.2	13.0	208/1												

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06 OCTOBER 2023

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CARING HOUSE EXPANSION

66 PICKETT RD
DURHAM NC

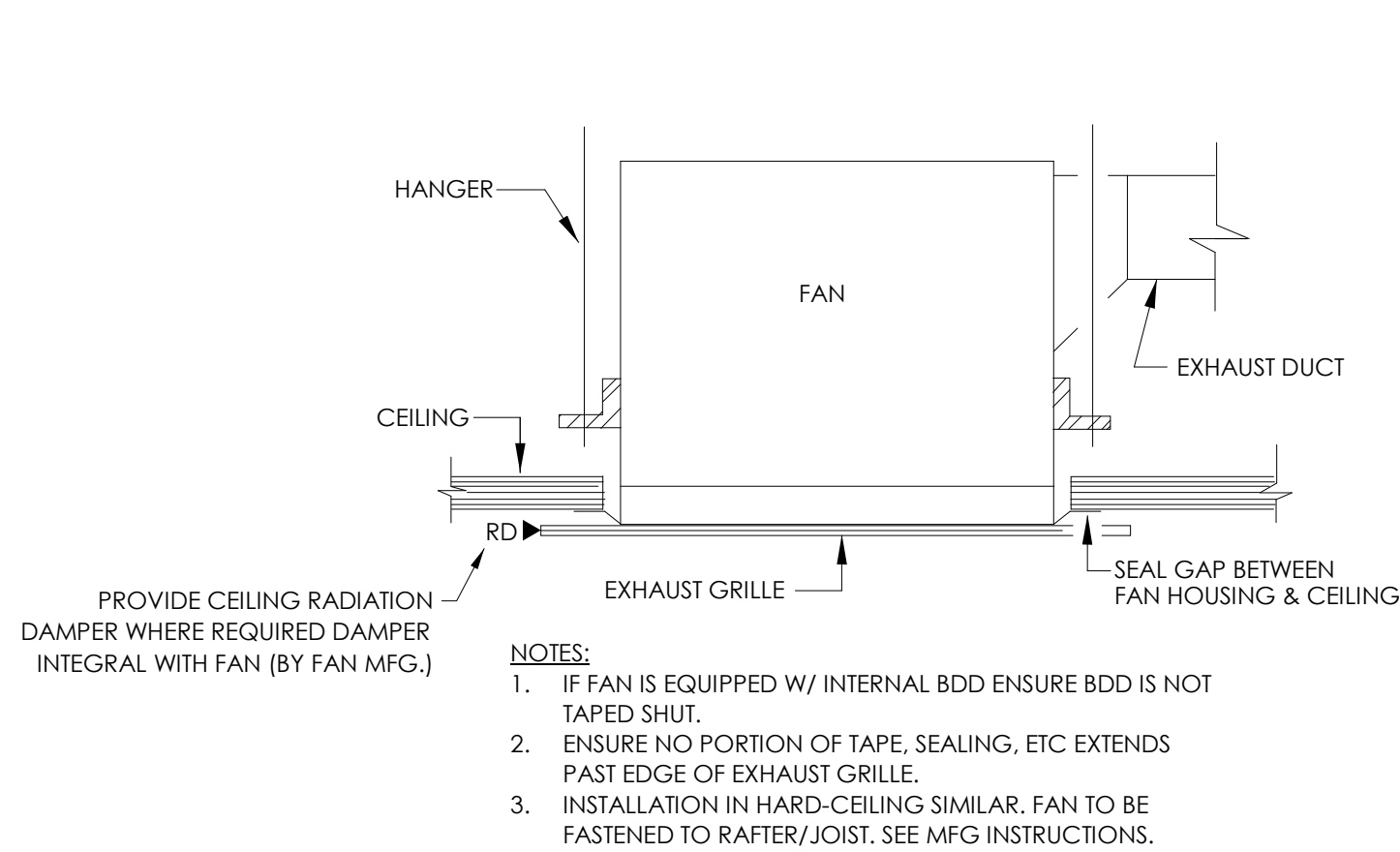
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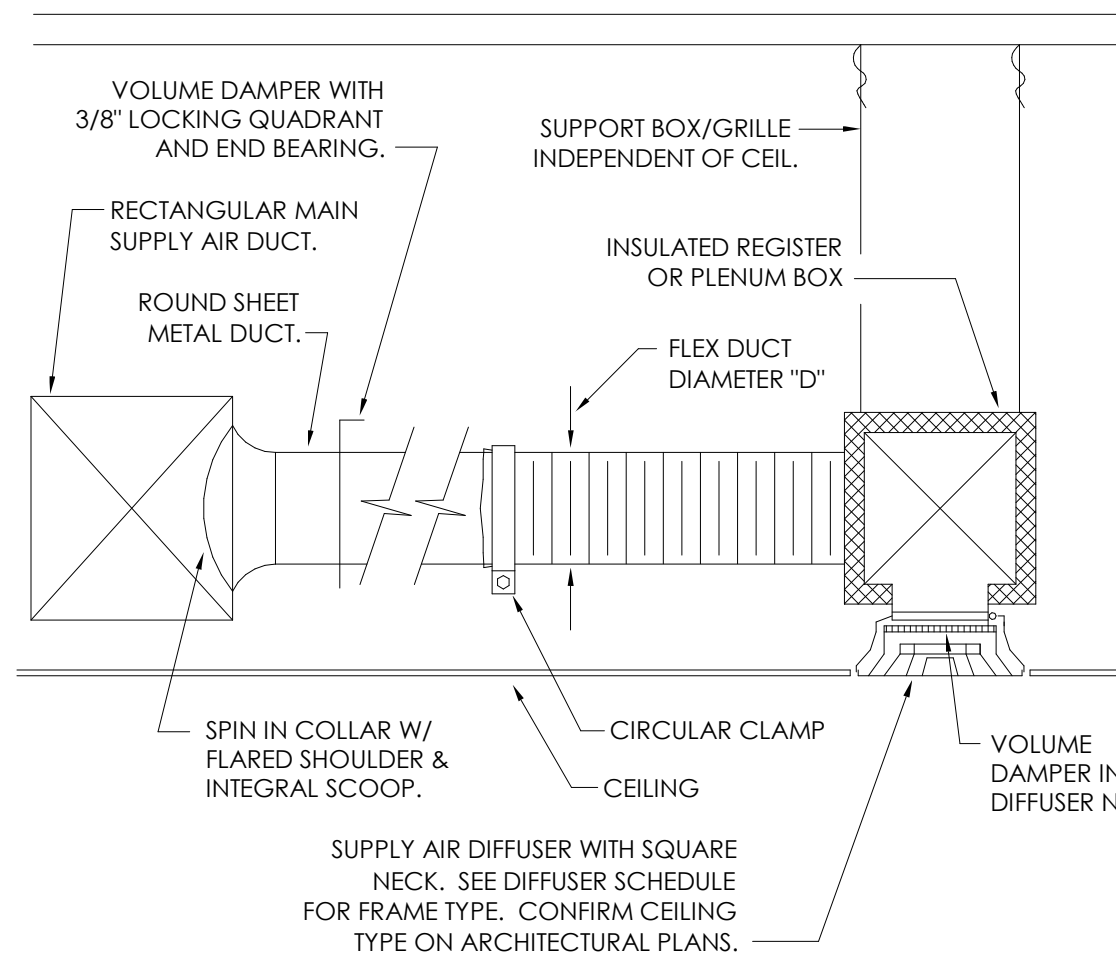
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MECHANICAL
SCHEDULES &
NOTES

SHEET NUMBER

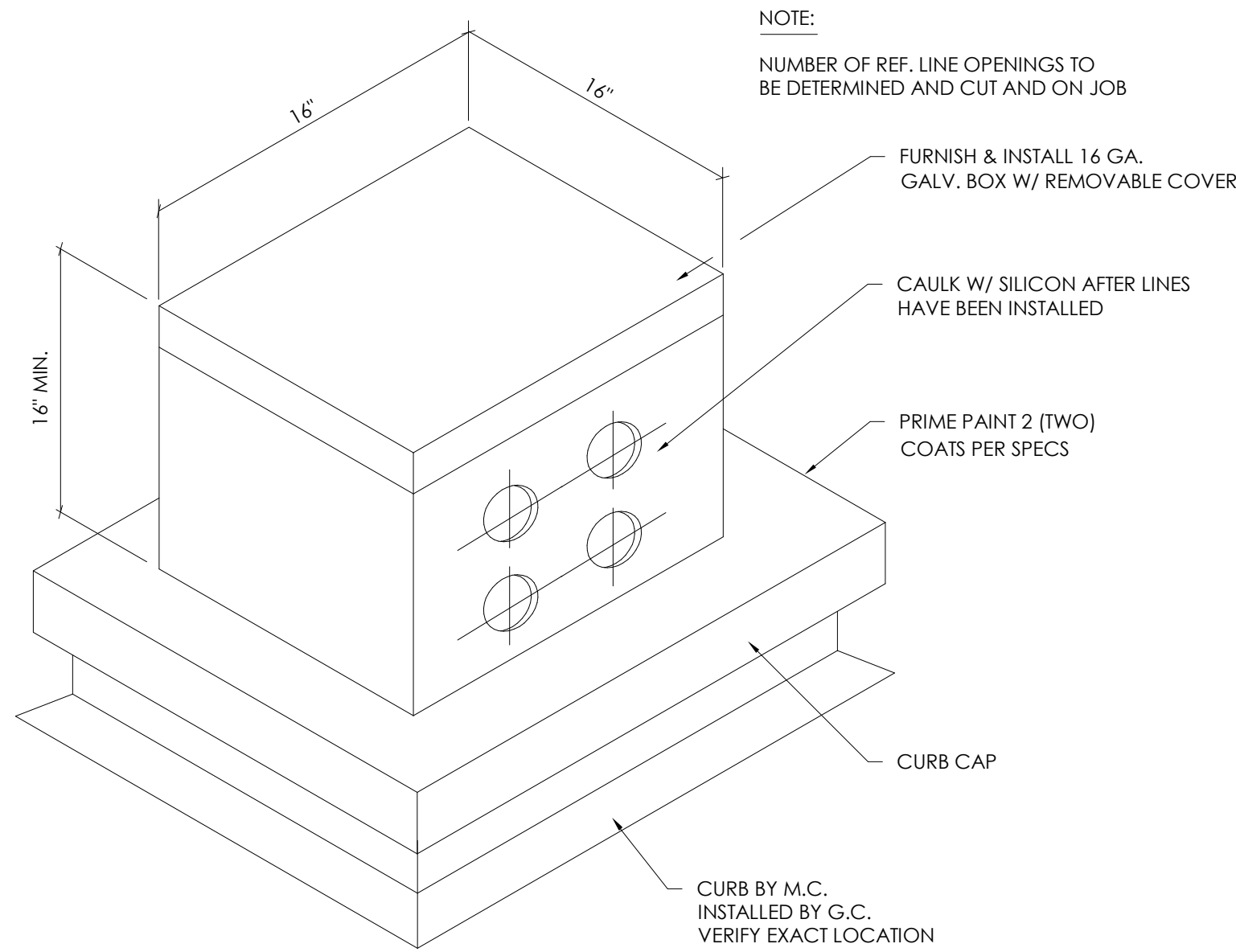
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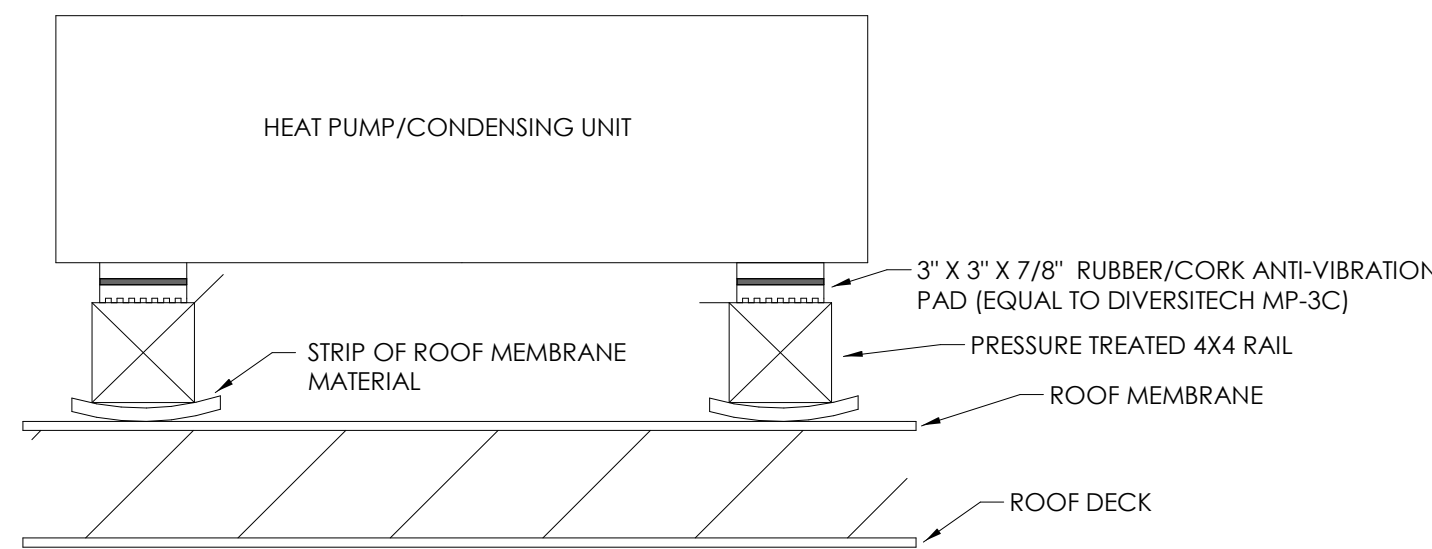
5 EXHAUST FAN (CEILING) DETAIL
NO SCALE



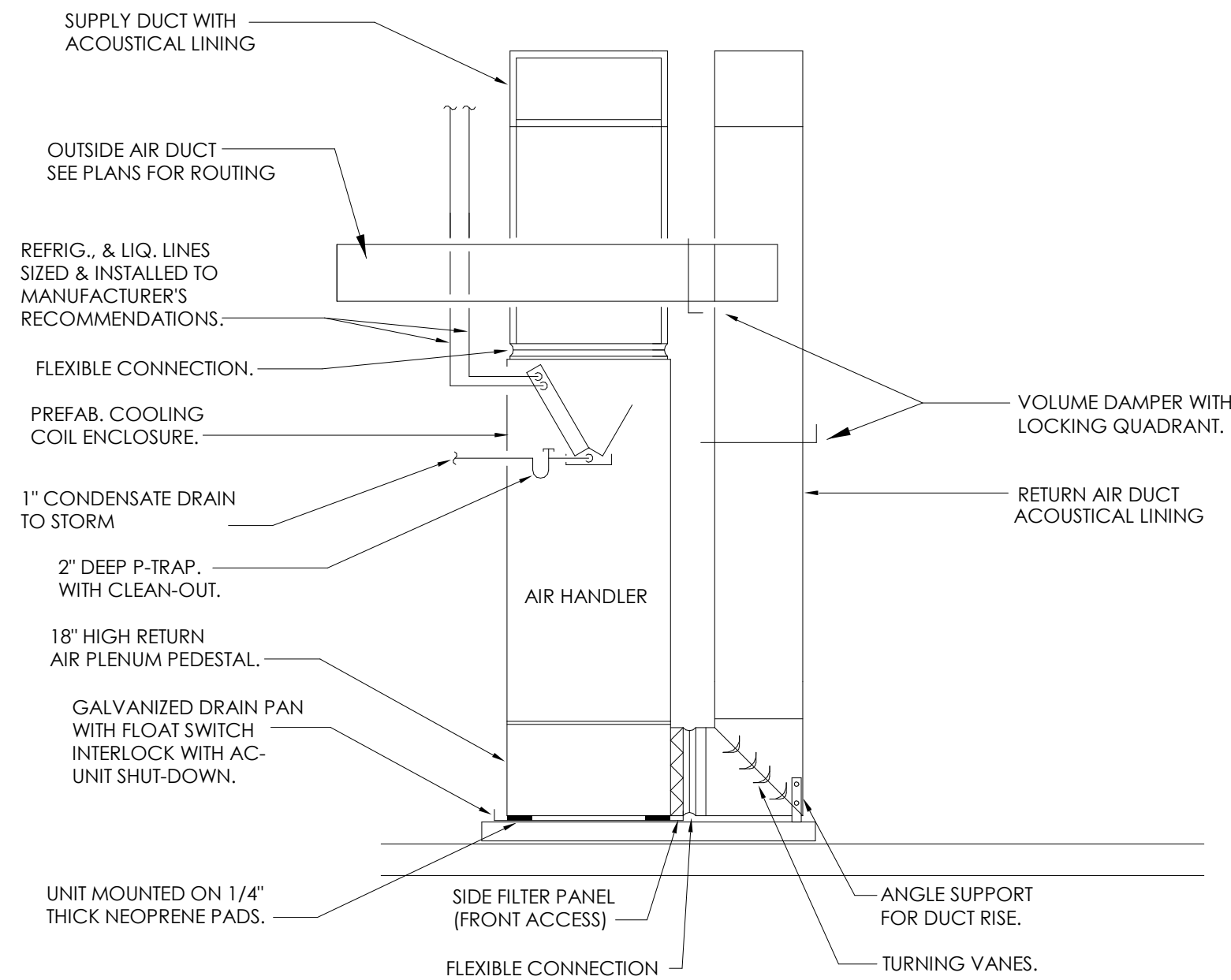
3 SUPPLY AIR DIFFUSER DETAIL
NO SCALE



4 REFRIGERANT BOX DETAIL
NO SCALE



2 ROOF HEAT PUMP DETAIL
NO SCALE



1 AIR HANDLING UNIT DETAIL
NO SCALE

FAN SCHEDULE											
UNIT NO.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE & ARRANGEMENT	MIN. MOTOR HP & VOLTAGE	MANUFACTURER & MODEL NO.	DRIVE	CONTROL SCHEME	NOTES
EF-1	EXHAUST	BATHROOM	75	0.25"	MFG	CEILING, CENTRIFUGAL	49 WATTS 120V/1	GREENHECK SPA-110	DIRECT	A	1,2,3,4,5

NOTES:

- SCREEN
- BACKDRAFT DAMPER
- COLOR BY ARCHITECT
- INTEGRAL DISCONNECT SWITCH
- W/ RADIATION DAMPER WHERE INDICATED.

CONTROL OPTIONS:

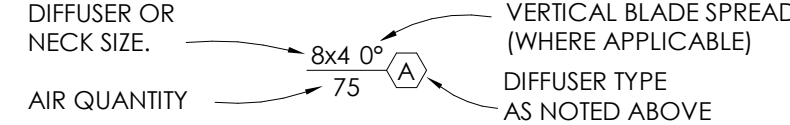
- A. CONTROL W/ ROOM LIGHTS

DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
(A)	AS NOTED	N/A	AS NOTED	SURFACE	DBL. DEFL.	YES	STEEL	SUPPLY	NOTE 3	TITUS 300RS	1,3,4
(B)	AS NOTED	N/A	AS NOTED	SURFACE	LOUVERED	NO	STEEL	RETURN	NOTE 3	TITUS 350RL	1,3,4
(C)	AS NOTED	AS NOTED	AS NOTED	SURFACE	SLOT	YES	ALUM.	SUPPLY	NOTE 3	TITUS ML-39 (2-SLOT, 1" SPACING)	2,3,4,5
(D)	AS NOTED	AS NOTED	AS NOTED	SURFACE	PLAQUE	YES	STEEL	SUPPLY	NOTE 3	ACUTHERM TK-HC	1,3,4,6

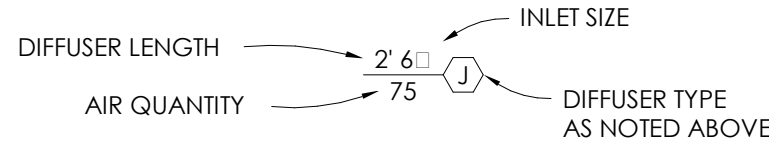
NOTES:

GENERAL - MC RESPONSIBLE FOR VERIFYING QTY, COLOR & FRAME TYPE OF DIFFUSERS/GRILLES BEFORE ORDERING. PROVIDE SQR TO RND TRANSITIONS & PLENUMS AS NECESSARY.

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:



2. SLOT DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:



- FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR.
- FACTORY INSULATION BACKING ON GRILLES EXPOSED TO NON-CONDITIONED AREAS. ALTERNATELY, FIELD SUPPLY AND INSTALL.
- SET UP FOR VERTICAL THROW.
- VAV DIFFUSER W/ HEAT & COOL SET POINTS. INTERNAL TEMPERATURE ADJUSTMENTS.

UNIT HEATER SCHEDULE										
TAG	LOCATION	TYPE	INPUT (BTUH)	OUTPUT (BTUH)	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
					W	V	PH	HZ		
UH-1	RISER ROOM	ELEC	N/A	N/A	1,500	120	1	60	MARKEL, E3313T2RPW	2,3,4,5,6
UH-2	STAIRS	ELEC	N/A	N/A	1,500	120	1	60	MARKEL, E3313T2RPW	1,2,3,4,5
UH-3	LOBBY	ELEC	N/A	N/A	1,500	120	1	60	MARKEL, E3715-072	3,5,7,8

NOTES:

- INTERNAL THERMOSTAT SET TO 60°F.
- SURFACE MOUNT.
- U.L. LISTED.
- MOUNT HEATER @ 12" A.F.F.
- UNIT DISCONNECT
- INTERNAL THERMOSTAT SET TO 40°F.
- BASEBOARD HEATER
- INTERNAL THERMOSTAT SET TO 60°F.

MECHANICAL LEGEND	
	RECTANGULAR DUCT
	ROUND METAL DUCT
	FLEX/RIGID ROUND DUCT
	ELBOW WITH TURNING VANES
	VOLUME DAMPER
	SUPPLY TAP
	SUPPLY DIFFUSER/GRILLE OR RISER
	RETURN REGISTER/GRILLE OR RISER
	EXHAUST REGISTER/GRILLE OR RISER
	CEILING EXHAUST FAN
	T-STAT
	LOUVERED DOOR (SEE ARCHITECTURAL DRAWINGS)
	3/4" DOOR UNDER CUT
	U.L. FIRE DAMPER W/ ACCESS DOOR
	U.L. 55SC LISTED CEILING RADIATION DAMPER

ENERGY REQUIREMENTS:	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
METHOD OF COMPLIANCE	
PREScriptive ☒	ENERGY COST BUDGET ☐
Thermal Zone	4A
Exterior Design Conditions	
Winter Dry Bulb	14
Summer Dry Bulb	93
Interior Design Conditions	
Winter Dry Bulb	70
Summer Dry Bulb	76
Relative Humidity	50%
	BLDG 1
Building Heating Load (MBH)	-
Building Cooling Load (MBH)	-
Mechanical Spacing Conditioning System	
Unitary	
Description of Unit	SEE SCHEDULES
Heating Efficiency	SEE SCHEDULES
Cooling Efficiency	SEE SCHEDULES
Heat Output of Unit	SEE SCHEDULES
Cooling Output of Unit	SEE SCHEDULES
Boiler	
Total Boiler Output	NA
Chiller	
Total Chiller Output	NA
List Equipment Efficiencies	SEE SCHEDULES
DESIGNER'S STATEMENT:	
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE N.C.S. ENERGY CODE.	
SIGNED: _____	
NAME: DUSTIN M. METAYER, PE	
TITLE: MECHANICAL ENGINEER	

BartonAssociates
CONSULTING ENGINEERS
BAI Engineering, PLLC
700 S. Mary St.
Raleigh, NC 27605
Lic# P-2780
(919) 241-4247
www.bai-inc.com
An Employee Owned Company - We Make Buildings Work
PROJECT No. 2024144-00
DRAWN BY: STL
CHECKED BY: DMM
SHEET TITLE: MECHANICAL SCHEDULES & DETAILS
SHEET NUMBER: M002
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new city
design group
1304 HILLSBOROUGH ST.
RALEIGH, NC 27605
919.831.1308
www.newcitydesign.com
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CARING HOUSE EXPANSION
2586 PICKETT RD
DURHAM NC
DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE
MECHANICAL
SCHEDULES &
DETAILS

SHEET NUMBER

M002

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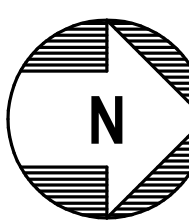
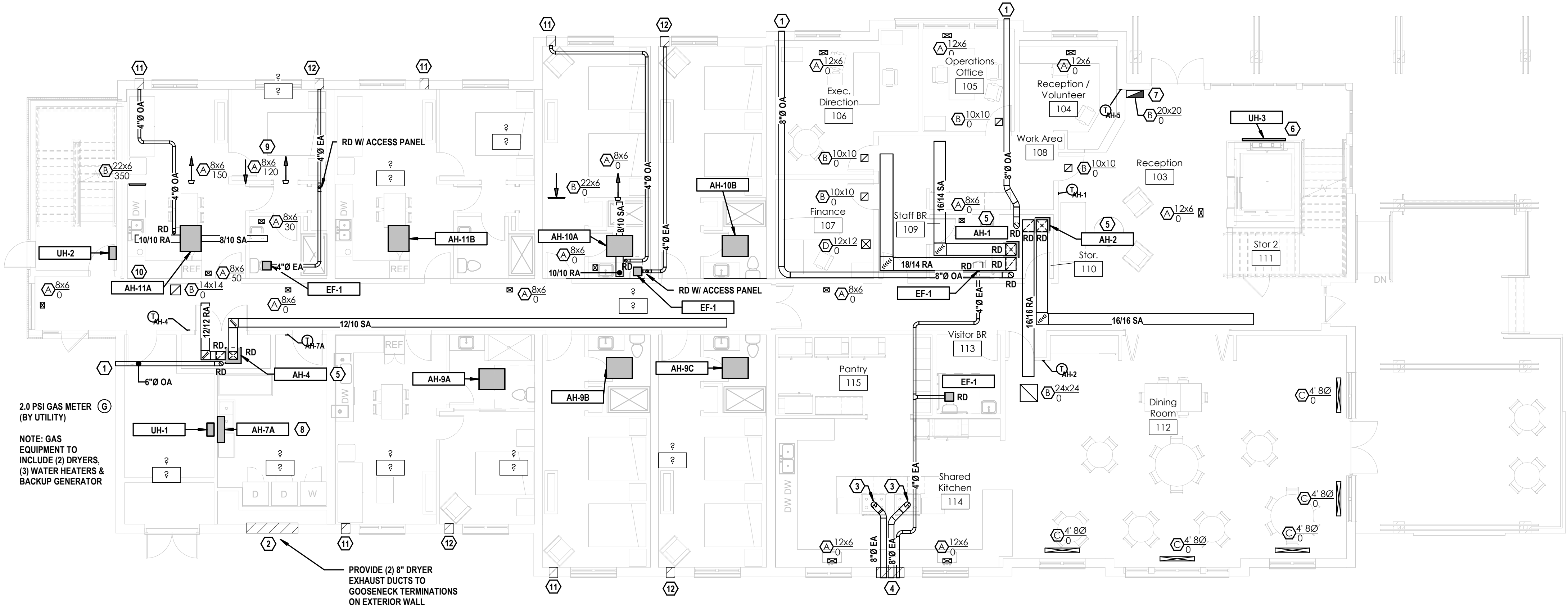
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NOTES

- OUTSIDE AIR INTAKE LOUVER W/ INSECT SCREEN & DRAINABLE BLADES. MINIMUM FREE AREA = 36 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- OUTSIDE AIR INTAKE LOUVER HIGH ON WALL W/ INSECT SCREEN & DRAINABLE BLADES. INSTALL LOUVER WITHIN 12" OF CEILING. BOTTOM OF LOUVER TO MAINTAIN MINIMUM 36" CLEARANCE ABOVE DRYER EXHAUST TERMINATIONS. MINIMUM FREE AREA = 2.0 SQFT. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- 8" EXHAUST TO RESIDENTIAL RANGE HOOD. RANGE HOOD TO EXHAUST 400 CFM OR LESS.
- EXHAUST LOUVER W/ INSECT SCREEN, BDD & DRAINABLE BLADES. MINIMUM FREE AREA = 270 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- UPRIGHT AIR HANDLER IN MECHANICAL CLOSET. ENSURE AH IS POSITIONED SO THAT REQ'D MAINTENANCE CLEARANCES ARE MAINTAINED. ROUTE CONDENSATE TO AREA HUB DRAIN. SEE DETAIL.
- BASEBOARD HEATER LOW ON WALL. ENSURE ALL MFG REQ'D CLEARANCES ARE MAINTAINED.
- RETURN DUCT DOWN IN CHASE FROM ABOVE. SEE SECOND FLOOR PLAN FOR CONTINUATION.
- WALL MOUNTED MINI-SPLIT AIR HANDLER TO BE INSTALLED HIGH ON WALL. ENSURE ALL MFG MAINTENANCE CLEARANCES ARE MAINTAINED. ROUTE CONDENSATE TO EXTERIOR AWAY FROM FOOT TRAFFIC.
- SIDEWALL SUPPLY GRILLE HIGH ON WALL. TYPICAL ALL GUEST ROOMS.
- DUCTED MINI SPLIT AIR HANDLER ABOVE CEILING. ENSURE REQUIRED MFG CLEARANCES ARE MAINTAINED. ROUTE CONDENSATE TO EXTERIOR AWAY FROM FOOT TRAFFIC. PROVIDE W/ ACCESS PANEL. TYPICAL ALL GUEST ROOMS.
- OUTSIDE AIR INTAKE LOUVER W/ INSECT SCREEN & DRAINABLE BLADES. MINIMUM FREE AREA = 36 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- EXHAUST LOUVER W/ INSECT SCREEN, BDD & DRAINABLE BLADES. MINIMUM FREE AREA = 70 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..

NOTE:
RADIATION DAMPERS TO BE
PROVIDED AT ALL SUPPLY &
RETURN GRILLES LOCATED IN
RATED FLOOR/CEILING
ASSEMBLY.

NOTE:
CORRIDOR WALLS AND
RESIDENT ROOMS ARE 1-HOUR
RATED. FLOOR/CEILING
ASSEMBLY IS 1-HOUR RATED.
RATINGS TO BE SHOWN IN
FUTURE SETS.



GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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REVISION SCHEDULE

REV DATE	REV #	REVISION DESCRIPTION
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CARING HOUSE EXPANSION
2566 PICKETT RD
DURHAM NC
DD PROGRESS SET

PROJECT NUMBER 7999

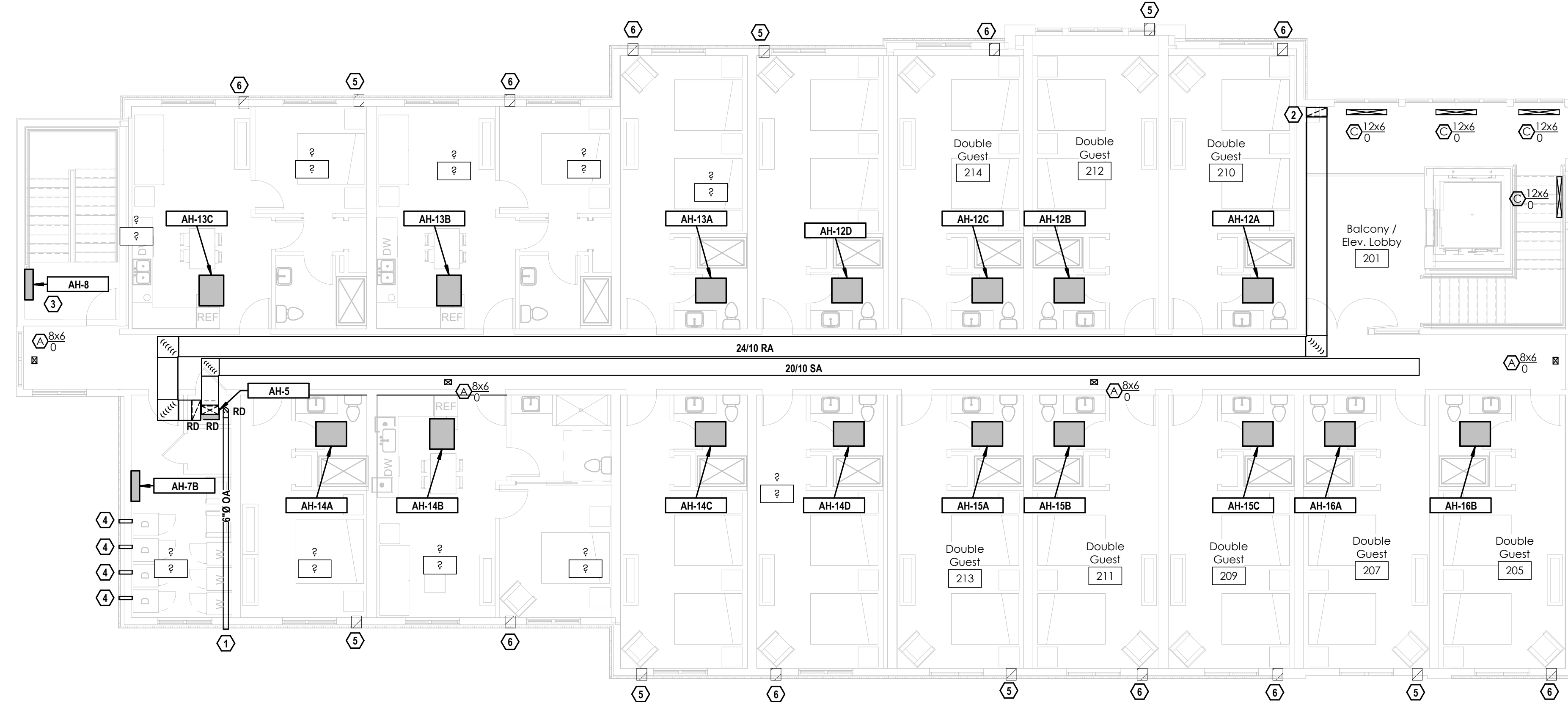
SHEET TITLE
SECOND FLOOR
PLAN

SHEET NUMBER

M102

NOTES

- OUTSIDE AIR INTAKE LOUVER W/ INSECT SCREEN & DRAINABLE BLADES. MINIMUM FREE AREA = 36 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- RETURN DUCT DOWN IN CHASE TO BELOW. SEE GROUND FLOOR PLAN FOR CONTINUATION.
- WALL MOUNTED MINI-SPLIT AIR HANDLER TO BE INSTALLED HIGH ON WALL. ENSURE ALL MFG MAINTENANCE CLEARANCES ARE MAINTAINED. ROUTE CONDENSATE TO EXTERIOR AWAY FROM FOOT TRAFFIC.
- DRYER VENT TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND & AROUND CAP W/ 100% SILICONE. MAINTAIN 3" CLEARANCE FROM OPERABLE OPENINGS.
- EXHAUST LOUVER W/ INSECT SCREEN, BDD & DRAINABLE BLADES. MINIMUM FREE AREA = 70 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..
- OUTSIDE AIR INTAKE LOUVER W/ INSECT SCREEN & DRAINABLE BLADES. MINIMUM FREE AREA = 36 SQIN. SELECTION & EXACT LOCATION BY ARCHITECT. COORDINATE W/ G.C..



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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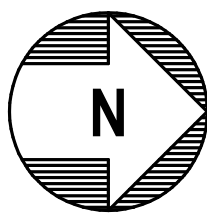
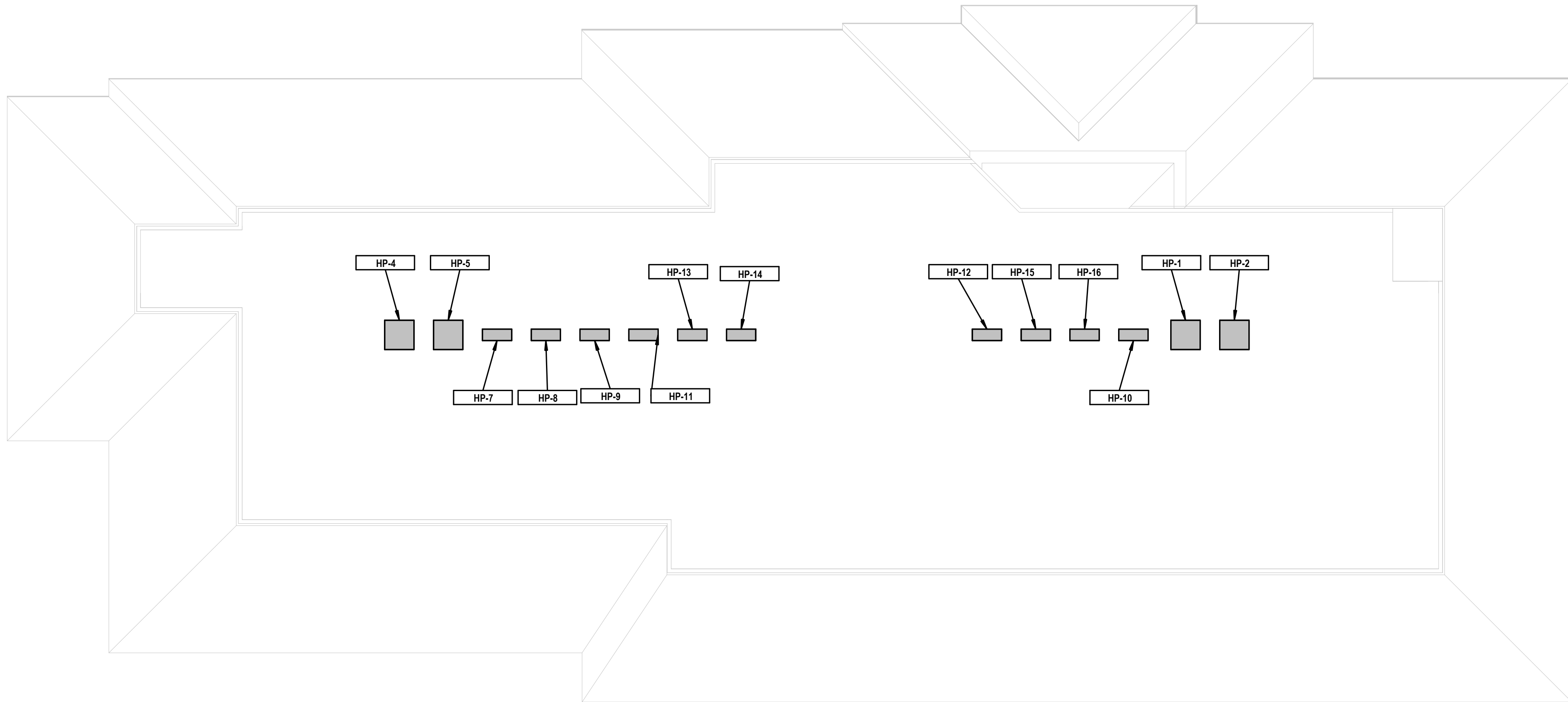
PROJECT NUMBER 7999

SHEET TITLE

ROOF PLAN

SHEET NUMBER

M103



ROOF PLAN
SCALE: 1/8" = 1'-0"

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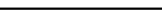
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CABLES, RACEWAY AND WIRING SCHEDULE		
CABLES		
DESIG	TYPE	LOCATIONS ALLOWED
MC	METAL CLAD CABLE	EXTERIOR: NOT PERMITTED. INTERIOR: PERMITTED ONLY IN SPECIFIC AREAS AS DEFINED IN THE SPECIFICATIONS AND WITH WRITTEN PERMISSION OF OWNER.
RACEWAYS		
DESIG	TYPE	LOCATIONS ALLOWED
IMC	INTERMEDIATE METAL CONDUIT	EXTERIOR: EXPOSED, CONCEALED ABOVEGROUND. INTERIOR: EXPOSED LESS THAN FOUR FEET (4') AFF; AREAS SUBJECT TO PHYSICAL DAMAGE, UNDERGROUND BENEATH CONCRETE SLABS, HAZARDOUS LOCATIONS.
ERMC	RIGID METAL CONDUIT	EXTERIOR: EXPOSED, CONCEALED ABOVEGROUND. INTERIOR: EXPOSED LESS THAN FOUR FEET (4') AFF; AREAS SUBJECT TO PHYSICAL DAMAGE, UNDERGROUND BENEATH CONCRETE SLABS, HAZARDOUS LOCATIONS, CABLEING OVER 600V, FIRE PUMP ROOM.
FMC	FLEXIBLE METAL CONDUIT	EXTERIOR: NOT PERMITTED. INTERIOR: FINAL CONNECTION TO RECESSED LIGHTING FIXTURES, FISHING VOIDS IN EXISTING MASONRY WALLS.
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	EXTERIOR: FINAL CONNECTIONS MOTORS AND VIBRATING EQUIPMENT. INTERIOR: FINAL CONNECTIONS MOTORS AND VIBRATING EQUIPMENT.
PVC	RIGID PVC CONDUIT	EXTERIOR: UNDERGROUND. INTERIOR: WITHIN OR BENEATH CONCRETE SLABS; EXPOSED IN DAMP OR WET LOCATIONS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
EMT	ELECTRICAL METAL TUBING	EXTERIOR: NOT PERMITTED. INTERIOR: CONCEALED IN WALLS AND CEILINGS; EXPOSED MORE THAN FOUR FEET (4') AFF; WITHIN CONCRETE SLABS ON AND ABOVE GRADE; SECONDARY SIDE OF ISOLATION PANELS.
WIRING		
CONDUCTOR		COPPER, COMPLY WITH ASTM B 3 FOR BARE COPPER AND ASTM B 8 FOR STRANDED CONDUCTORS. LISTED AND LABELED AS DEFINED BY NEC. STRANDED FOR #8 AWG AND LARGER, SOLID FOR #10 AWG AND SMALLER. ALUMINUM CONDUCTORS NOT PERMITTED.
WIRING INSULATION		THW, THHN/THWN, XHHW, OR XHHW-2
MINIMUM SIZE		#12 AWG FOR POWER, #14 FOR CONTROL
WIRING LEGEND		
SYMBOL	DESCRIPTION	
	HATCH MARKS INDICATE QUANTITY OF #12 PHASE (SHORT HATCH) AND NEUTRAL (LONG HATCH) CONDUCTORS IN CONDUIT. PROVIDE ADDITIONAL #12G IN EACH CONDUIT. PROVIDE 2#12 AND #12G WHERE HATCH MARKS ARE NOT INDICATED, UNLESS NOTED OTHERWISE.	
	CONDUIT / WIRING RUN CONCEALED IN WALL OR CEILING	
	CONDUIT / WIRING RUN UNDERFLOOR OR UNDERGROUND	
	CONDUIT / WIRING RUN EXPOSED	
	BRANCH CIRCUIT TO PANEL	
SEE ADDITIONAL REQUIREMENTS IN ELECTRICAL SPECIFICATIONS		

ELECTRICAL SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, RECESSED TROFFER; NORMAL
	LIGHTING FIXTURE, RECESSED ARCHITECTURAL TROFFER; NORMAL
	LIGHTING FIXTURE, SURFACE OR PENDANT (AS INDICATED); NORMAL
	LIGHTING FIXTURE, WALL MOUNTED; NORMAL
	LIGHTING FIXTURE, CEILING MOUNTED UNLESS NOTED OTHERWISE; NORMAL
	LIGHTING FIXTURE, WALL MOUNTED; NORMAL
	LIGHTING FIXTURE, STEP LIGHT; NORMAL
	TRACK LIGHTING, NUMBER OF HEADS AS INDICATED
	CEILING SPOT OR FLOOD LIGHTING FIXTURE
	WALL SPOT OR FLOOD LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE, NUMBER OF HEADS AS INDICATED
	FIXTURE DESIGNATION INDICATES FIXTURE TYPE. LETTER INDICATES SWITCH ZONE WHERE APPLICABLE (APPLIES TO ALL FIXTURE TYPES)
	LIGHTING FIXTURE; HALF SHADED INDICATES NORMAL AND EMERGENCY (APPLIES TO ALL FIXTURE TYPES)
	LIGHTING FIXTURE; FULLY SHADED INDICATES EMERGENCY ONLY (APPLIES TO ALL FIXTURE TYPES)
	EMERGENCY LIGHTING BATTERY UNIT, NUMBER OF HEADS AS INDICATED
	REMOTE EMERGENCY LIGHTING HEAD, WALL MOUNTED
	WALL MOUNTED EXIT SIGN, ILLUMINATED; SHADED PORTION INDICATES LIGHTED FACE; DIRECTIONAL ARROWS AS INDICATED
	CEILING MOUNTED EXIT SIGN, ILLUMINATED; SHADED PORTION INDICATES LIGHTED FACE; DIRECTIONAL ARROWS AS INDICATED
	PHOTOCELL, COORDINATE MOUNTING AND AIMING DIRECTION IN FIELD
	BLANK CEILING OUTLET WITH COVERPLATE, RECESSED UNLESS NOTED
	BLANK WALL OUTLET WITH COVERPLATE, RECESSED UNLESS NOTED
S	SINGLE POLE SWITCH
S ₂	DOUBLE POLE SWITCH
S ₃	THREE WAY SWITCH
S ₄	FOUR WAY SWITCH
S _K	KEY OPERATED SWITCH
S _P	SWITCH WITH PILOT LIGHT
S _F	FAN/LIGHT SWITCH
	RECEPTACLE, SINGLE NEMA 5-20R
	RECEPTACLE, DUPLEX NEMA 5-20R
	RECEPTACLE, DUPLEX NEMA 5-20R, HALF-SWITCHED
	RECEPTACLES, TWO DUPLEX MOUNTED IN A DOUBLE GANG BOX (APPLIES TO ALL RECEPTACLE TYPES)
	RECEPTACLE, CONNECTED TO THE EMERGENCY SYSTEM (APPLIES TO ALL RECEPTACLE TYPES)
	INDICATES HOSPITAL GRADE RECEPTACLE
	INDICATES GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	INDICATES TAMPER-RESISTANT RECEPTACLE
	INDICATES ISOLATED GROUND RECEPTACLE
	INDICATES SURGE SUPPRESSION RECEPTACLE
	CONTROLLED RECEPTACLE, DUPLEX
	INDICATES RECEPTACLE OR DEVICE TO BE INSTALLED IN SURFACE RACEWAY
	INDICATES RECEPTACLE TO BE MOUNTED ABOVE COUNTER
	INDICATES MOUNTING HEIGHT OF RECEPTACLE, 18" AFF IF NOT NOTED
	RECEPTACLE, DUPLEX NEMA 5-20R UNLESS NOTED OTHERWISE, MOUNTED IN CEILING OR AT STEEL
	RECEPTACLE, DUPLEX NEMA 5-20R UNLESS NOTED OTHERWISE, RECESSED FLOOR MOUNTED
	NUMBER INDICATES SOURCE PANEL AND BREAKER. CONNECT ADJACENT DEVICES INDICATED ON SAME CIRCUIT. PROVIDE BRANCH CIRCUIT FROM DEVICE NEAREST PANEL TO PANELBOARD (APPLIES TO ALL RECEPTACLES AND JUNCTION BOXES)

ELECTRICAL SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS INDICATED
	SPECIAL RECEPTACLE, THREE PHASE, NEMA CONFIGURATION AS INDICATED
	POWER POLE, WIRING DEVICES AS INDICATED
	MOTOR STARTER, MANUAL WITHOUT OVERLOADS; "X" INDICATES NUMBER OF POLES, NO NUMBER INDICATES ONE POLE
	DISCONNECT SWITCH, RATINGS AS INDICATED ON SCHEDULE, FUSED UNLESS NOTED OTHERWISE
	TRANSFORMER, FLOOR OR PAD MOUNTED UNLESS NOTED OTHERWISE
	JUNCTION BOX, WALL MOUNTED, RECESSED UNLESS NOTED
	JUNCTION BOX
	JUNCTION BOX FOR AUTOMATIC FLUSH VALVE/FAUCET TRANSFORMER [REFER TO DETAIL x ON DRAWING Exxx]
	JUNCTION BOX FOR AUTOMATIC DOOR OPERATOR [REFER TO DETAIL x ON DRAWING Exxx]
	JUNCTION BOX FOR ELECTRIC STRIKE/LATCH DOOR HARDWARE [REFER TO DETAIL x ON DRAWING Exxx]
	JUNCTION BOX FOR MAGNETIC LOCKING DOOR HARDWARE [REFER TO DETAIL x ON DRAWING Exxx]
	JUNCTION BOX FOR BUILDING AUTOMATION SYSTEM PANEL, FINAL CONNECTION TO PANEL BY BAS INSTALLER.
	PULL BOX, SIZED AS REQUIRED
	PANELBOARD - [208Y/120V, 3PH, 4W][120/240V, 1PH, 3W][208V, 3PH, 3W]
	PANELBOARD - [480Y/277V, 3PH, 4W][480V, 3PH, 3W]
	MISCELLANEOUS PANEL
REFERENCE NUMBER → SHEET CROSS REFERENCE SECTION REFERENCE LETTER → DIRECTION OF VIEW SHEET CROSS REFERENCE	

ELECTRICAL ABBREVIATIONS

A	AMPERE	LSIA	ADJUSTABLE LONG TIME, SHORT TIME, AND
AB CL	ABOVE CEILING	LSIG	INST TRIP FUNCTIONS AND GF ALARM
AF	AMP FRAME		ADJUSTABLE LONG TIME, SHORT TIME, AND
AFB	ABOVE FINISHED FLOOR	MC	INST TRIP FUNCTIONS AND GF TRIP
AFO	ABOVE FINISHED GRADE	MCR	METAL-CLAD CABLE
AIC	AMPERE INTERRUPTING CAPACITY	MFB	MAIN CIRCUIT BREAKER
AT	AMP TRIP	MFR	MANUFACTURER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
BFC	BELOW FINISHED CEILING	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MLO	MAIN LUG ONLY
BFG	BELOW FINISHED GRADE	MTD	MOUNTED
BKR	BREAKER	NE	NORMAL/EMERGENCY
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE, NFPA 70
CKT	CIRCUIT	NL	NIGHT LIGHT
CMH	COMMUNICATIONS MANHOLE	NC	NORMALLY CLOSED
DIA	DIAMETER	NO	NUMBER OR NORMALLY OPEN
E	EMERGENCY	OC	ON CENTER
EA	EACH	OE	OVERHEAD ELECTRIC
EC	ELECTRICAL CONTRACTOR	OT	OVERHEAD TELECOMMUNICATIONS
EMH	ELECTRICAL MANHOLE	P	POLE
EMT	ELECTRICAL METALLIC TUBING	PC	PLUMBING CONTRACTOR
EWG	ELECTRIC WATER COOLER	PH	PHASE
EXR	EXISTING TO BE REMOVED	REX	RELOCATED EXISTING
EX	EXISTING TO REMAIN	RMC	RIGID METAL CONDUIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SCCR	SHORT CIRCUIT CURRENT RATING
FACP	FIRE ALARM CONTROL PANEL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FM	FLEXIBLE METAL CONDUIT	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UE	UNDERGROUND ELECTRIC
GF1/GFC1	GROUND FAULT INTERRUPTER (5ma)	UG	UNDERGROUND
GFEP/GFPE	GROUND FAULT INTERRUPTER (30ma)	UN FL	UNDER FLOOR
G	GROUND	UT	UNDERGROUND TELECOMMUNICATIONS
HC	HVAC CONTRACTOR	V	VOLTS
HT	HEIGHT	WCR	WITHSTAND CLOSE RATING
ISO	ISOLATION	WGW	WITH WIRE GUARD
KVA	KILOVOLT AMPERE	WP	WEATHERPROOF
KW	KILOWATT	WH	WALL HUNG
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT	WFM	TRANSFORMER
LSI	ADJUSTABLE LONG TIME, SHORT TIME, AND INST TRIP FUNCTIONS		

GENERAL ELECTRICAL NOTES

- GENERAL REQUIREMENTS:**
 - ELECTRICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
 - ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH NEC AND ALL OTHER APPLICABLE CODES. EC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
 - ALL ELECTRICAL & LIGHTING EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
 - ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE. IF LONGER, EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
 - THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
 - DO NOT SCALE DRAWINGS FOR MEASUREMENT. IF PRECISE DIMENSIONS ARE NEEDED, ELECTRONIC DRAWINGS ARE AVAILABLE UPON REQUEST FROM ARCH/ENGINEER FOR PREPARATION OF COORDINATION DRAWINGS BY CONTRACTOR.
 - INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #: IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
 - BEFORE BID EC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
 - AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE EC SHALL PROVIDE SUBMITTALS OR EQUIPMENT HE/SH/HE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
 - ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
 - E.C. IS TO REVIEW COMPLETE DRAWING SET. E.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED, UNLESS OTHERWISE NOTED FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT, FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC) IS THE RESPONSIBILITY OF THE E.C..
 - DIVISION OF WORK:**
 - ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ETC ARE TO BE PERFORMED BY ROOFING CONTRACTOR. E.C. RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC AND COMMUNICATING ALL REQ'S WITH G.C. & ROOFING CONTRACTOR.
 - ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
 - G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO ELECTRICAL SYSTEM. E.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
 - ELECTRICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF ELECTRICAL EQUIPMENT & SYSTEMS.
 - G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED CONDUIT, WIRE, BOXES ETC. E.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
 - E.C. TO COORDINATE W/ G.C. PRIOR TO BID REGARDING HIRING OF FIRE ALARM, DATA/TELE & SECURITY SUB-CONTRACTORS (IF APPLICABLE).
 - MATERIALS:**
 - ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
 - PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY NEC.
 - ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
 - ELECTRICAL BOXES IN RATED WALLS MUST BE METAL OR LISTED FOR USE IN RATED WALLS, ONLY SINGLE AND DOUBLE GANG BOXES ARE TO BE USED IN RATED WALLS, LARGER BOXES ARE NOT ALLOWED AS THEY EXCEED THE 16 SQUARE INCH MAXIMUM BOX OPENING ALLOWED IN RATED WALLS PER NEC 300.21
 - CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID OR STRANDED. UNLESS OTHERWISE NOTED, CONDUCTOR INSULATION SHALL BE TYPE THHN UNLESS OTHERWISE NOTED. ALL EXTERIOR CABLE OR OTHER WIRE EXPOSED TO SUNLIGHT SHALL BE RATED FOR EXTERIOR USE & SUNLIGHT RESISTANT.
 - ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT, EXCEPT AS ALLOWED BELOW. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. PVC NOT TO BE USED IN PATIENT CARE AREAS. MINIMUM CONDUIT SIZE TO BE 1/2". TYPE MC AND AC CABLE MAY BE USED WHERE PERMISSIBLE BY NEC. FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND LUMINAIRES, BUT SHALL NOT EXCEED 6' IN LENGTH. NM & SER CABLE MAY BE USED IN CONSTRUCTION TYPES AND OCCUPANCIES ALLOWED BY NEC. NO NM OR SER CABLE MAY BE INSTALLED EXPOSED. ALL NM AND SER CABLE SHOULD BE PROTECTED FROM PHYSICAL DAMAGE AND INSTALLED IN ACCORDANCE WITH NEC 310.
 - METAL CONDUIT COUPLINGS TO BE COMPRESSION TYPE OR THREADED WHEN ACCESSIBLE TO BUILDING OCCUPANTS. METAL CONDUIT COUPLINGS MAY BE SET-SCREW TYPE WHEN CONCEALED IN BUILDING STRUCTURE OR LOCATED MORE THAN 10' AFF. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.
 - FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
 - ALL TERMINALS/LUGS SHALL BE 60/75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
 - RECEPTACLES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES. GROUND FAULT RECEPTACLES SHALL BE EQUAL TO COOPER VGF SERIES.
 - LIGHTING SWITCHES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES.
 - ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
 - ANY RECESSED LIGHT FIXTURES INSTALLED IN INSULATED CEILINGS OR WALLS ARE TO BE "IC RATED" AND "AIR TIGHT" MEETING THE REQUIREMENTS OF ASTM 283 AND 2018 NCECC SEC. C402.5.8 FOR COMMERCIAL PROJECTS & R402.4.6 FOR RESIDENTIAL PROJECTS.
 - ANY MULTI-WIRE BRANCH CIRCUITS ARE TO PROVIDED WITH MULTI-POLE BREAKERS.
- IV. COORDINATION:**
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ETC).
 - E.C. TO COORDINATE ELEVATION OF WALL MOUNTED LIGHTS (INTERIOR & EXTERIOR) W/ ARCHITECT/ARCH PLANS.
 - E.C. TO COORDINATE W/ P.C. & M.C. REGARDING POWER AND FIRE ALARM CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT.
 - E.C. TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
 - E.C. TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.
- V. EXECUTION:**
- E.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING ELECTRICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
 - E.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, AND SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT AND THAT THE FORE MENTIONED DOES NOT INTERFERE WITH THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE WITH OTHER TRADE CONTRACTORS AND CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.
 - A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
 - PROVIDE A PULLWIRE IN ALL EMPT CYCLOS.
 - PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. WHITE LETTERS ON BLACK BACKGROUND.
 - ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
 - SEAL ALL PENETRATIONS OF SMOKE PARTITIONS OR FIRE RATED WALLS, CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL AND NC BUILDING CODE.
 - PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
 - ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
 - SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
 - PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2018 NCECC C402.5.1.1 FOR COMMERCIAL PROJECTS & R402.4.2 FOR RESIDENTIAL PROJECTS.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE ELECTRICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
 - UNLESS OTHERWISE INDICATED THE ELECTRICAL CONTRACTOR AT HIS/HER DISCRETION MAY COMBINE MULTIPLE CIRCUITS INTO A SINGLE CONDUIT AND DE-RATE WIRE. COMBINING AND DE-RATING IS TO BE DONE IN STRICT ACCORDANCE W/ NEC.
 - DEVICES INCLUDING GFCI PROTECTION MUST HAVE THEIR TESTING MEANS READILY ACCESSIBLE. PROVIDE REMOTE TESTING MEANS OR GFCI BREAKER FOR GFCI RECEPTACLES AND SIMILAR DEVICES WHICH ARE NOT READILY ACCESSIBLE (I.E. BEHIND EQUIPMENT, AT CEILING, ETC). (NEC 210.8).
 - COORDINATE WITH THE CABLE TV AND TELEPHONE UTILITIES FOR SERVICE ENTRANCE AND CABLEING REQUIREMENTS PRIOR TO ANY PURCHASING. INSTALLATION MUST COMPLY WITH THEIR RESPECTIVE REGULATIONS AND REQUIREMENTS.
 - ALL EXIT & EMERGENCY LIGHTS ARE TO BE CIRCUITED TO UN-SWITCHED LEG OF LOCAL NORMALLY ON LIGHTING CIRCUIT.
 - RECEPTACLE, LIGHT SWITCHES AND OTHER CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE W/ ANSI A17.1 AND ADA REQ'S CONCERNING HEIGHT AND ACCESSIBILITY. FHA REQ'S TO BE FOLLOWED FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS.
 - E.C. IS TO CONFIRM EXACT ELECTRICAL NAMEPLATE DATA OF ALL PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MCA, MOCF, VOLTAGE & PHASE BEFORE BEGINNING WORK.
 - CEILING MOUNTED ELECTRICAL FIXTURES SHALL BE A MINIMUM OF 80 INCHES ABOVE THE FINISHED FLOOR UNLESS ABOVE COUNTERTOPS OR SIMILAR FIXED OBSTRUCTIONS.
 - E.C. TO IDENTIFY AND PERMANENTLY MARK BOXES, ENCLOSURES, EXPOSED CABLE, AND RACEWAY SYSTEMS SERVING EMERGENCY SYSTEMS IN ACCORDANCE TO NEC 700.10. E.C. TO ALSO PROVIDE CLEARLY IDENTIFIED LABEL OF EMERGENCY BRANCH CIRCUIT AT PANEL. (NEC 700.12[F](2)(4)).
 - CORRUGATED STAINLESS STEEL TUBING (CSST) GAS PIPING SYSTEMS AND PIPING SYSTEMS CONTAINING ONE OR MORE SEGMENTS OF CSST SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE IN ACCORDANCE TO 2018 NCECC SEC. 310.1.1. EXISTING NON-CSST PIPING SYSTEMS MUST BE BONDED WHEN CSST IS ADDED TO THE SYSTEM REGARDLESS OF THE LENGTH OF CSST ADDED.
 - ALL WORK IN/THROUGH REQUIRED FIRE RATED WALLS, BARRIERS, AND PARTITIONS SHALL COMPLY WITH 2018 NBC/IBC SEC 714. OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. AND 2018 NBC/IBC SEC 714.
 - BACK-TO-BACK BOXES IN 1 OR 2 HOUR RATED WALLS WITHIN 24" OF EACH OTHER SHALL BE PROTECTED BY (1) OF THE FOLLOWING, OR EQUAL: METACALK BOX GUARD (METAL BOXES ONLY), METACALK COVER GUARD, OR METACALK PUTTY PADS.
 - CEILING MOUNTED OCCUPANCY SENSORS ARE TO BE MOUNTED AT LEAST 6'-0" FROM DIFFUSERS, GRILLES, FANS, AND OTHER SIMILAR SOURCES OF VIBRATION. COORDINATE INSTALLATION LOCATIONS WITH M.C..

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LIGHTING CONTROL SYSTEM - COMPONENT SCHEDULE (SENSOR SWITCH)			
SYMBOL	DESCRIPTION	BASIS OF DESIGN MANUFACTURER/SERIES	NOTES
S ₀	LINE VOLTAGE DIMMER SWITCH, 0-10V	SENSORSWITCH #P0DMRD	PROVIDE 'E2' VERSION WHERE ELDOLED DRIVER COMPATIBILITY REQUIRED.
	LINE VOLTAGE TOGGLE SWITCH AND DUAL TECH SENSOR COMBINATION, SINGLE RELAY	SENSORSWITCH #WSX PDT	PROVIDE 'L1' VERSION WHERE LOW TEMP/HIGH HUMID OPERATION REQUIRED.
	CEILING-MOUNTED DUAL TECH OCCUPANCY SENSOR, LOW VOLTAGE.	SENSOR SWITCH #CM PDT 10	TIME DELAY SET TO 20 MINUTES FOR ON/OFF. PROVIDE SENSOR SWITCH PP-20 POWER PACKS W/ RELAYS AS NEEDED FOR POWERING OF SENSORS AND CONTROL OF LIGHTING CIRCUITS.
	CORNER-MOUNTED DUAL TECH OCCUPANCY SENSOR WITH BRACKET KIT, LOW VOLTAGE.	SENSOR SWITCH #WV PDT 16	TIME DELAY SET TO 20 MINUTES FOR ON/OFF. PROVIDE SENSOR SWITCH PP-20 POWER PACKS W/ RELAYS AS NEEDED FOR POWERING OF SENSORS AND CONTROL OF LIGHTING CIRCUITS.
*FINISH OF CONTROL DEVICES SHALL BE SELECTED BY ARCHITECT DURING SHOP DRAWING REVIEW.			

MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION
			NO.	TYPE		NO.	TYPE			
C1	FOCAL POINT	FLC6D / LC6	-	LED	120	-	-	17	RECESSED	6" RECESSED LED DOWNLIGHT, 1500 LUMENS, 3000K COLOR TEMP., WIDE FLOOD DIST., IC RATED, 0-10V DIMMING TO 10%. FINISH AND TRIM BY ARCH.
C1e	FOCAL POINT	FLC6D / LC6	-	LED	120	-	-	17	RECESSED	6" RECESSED LED DOWNLIGHT, 1500 LUMENS, 3000K COLOR TEMP., WIDE FLOOD DIST., IC RATED, 0-10V DIMMING TO 10%. FINISH AND TRIM BY ARCH. PROVIDE W/ INTEGRAL EMERGENCY BATTERY.
C2	FOCAL POINT	FLC3D / LC3	-	LED	120	-	-	8	RECESSED	3.5" RECESSED LED DOWNLIGHT, 700 LUMENS, 3000K COLOR TEMP., WIDE FLOOD DIST., IC RATED, FINISH AND TRIM BY ARCH.
C2W	FOCAL POINT	FLC3D / LC3	-	LED	120	-	-	8	RECESSED	3.5" RECESSED LED DOWNLIGHT, 700 LUMENS, 3000K COLOR TEMP., WIDE FLOOD DIST., IC RATED, FINISH AND TRIM BY ARCH. WET LOCATION LISTED.
E	LITHONIA	VAP	-	LED	120	-	-	40	WALL	LINEAR LED FIXTURE W/ POLY CARB GASKETED LENS, ALUMINUM HOUSING, 6000 LUMENS, 3000K COLOR TEMPERATURE.
	-	-	-	-	120	-	-	50 MAX	SUSPENDED	CEILING FAN WITH LIGHT KIT, FINISH AND TRIM BY ARCH. 3000K COLOR TEMP., PROVIDE \$250/FIXTURE ALLOWANCE IN BID.
P1	VISUAL COMFORT	LODY 20-LIGHT	-	-	MVOLT	-	-	40	SUSPENDED	SUSPENDED MULTI-LIGHT LED CHANDELIER, 2081 LUMENS, 3000K COLOR TEMP., ELV DIMMING, CONFIRM SUSPENSION SELECTION HEIGHT AND STEM OPTION WITH ARCH. FINISH BY ARCH.
P2	FOCAL POINT	FLCY3N	-	LED	120	-	-	8	SUSPENDED	3.5" SUSPENDED LED CYLINDER, 700 LUMENS, 3000K TEMP., WIDE FLOOD DIST. 0-10V DIMMING TO 10%. FINISH & TRIM BY ARCH. COORDINATE SUSPENSION REQUIREMENTS W/ ARCH PRIOR TO PURCHASE.
S	LITHONIA	BLWP4	-	LED	MVOLT	1	DRIVER	25W	SURFACE	4" LED ACRYLIC LENS SURFACE MOUNTED FIXTURE, 3000 LUMENS, 3000K TEMP., INTEGRAL OCCUPANCY SENSOR DIMMING TO 10%. FINISH BY ARCH.
WS1	VISUAL COMFORT	MILLEY 7 WALL	-	LED	120	-	-	9	WALL	WALL MOUNTED DECORATIVE LED SCONCE, 537 LUMENS, 3000K COLOR TEMP., 7" HEIGHT, 90 CRI, FINISH BY ARCH.
WS2	VISUAL COMFORT	MILLEY 7 WALL	-	LED	120	-	-	9	WALL	WALL MOUNTED DECORATIVE LED VANITY, 537 LUMENS, 3000K COLOR TEMP., 7" HEIGHT, 90 CRI, FINISH BY ARCH.
WS3	-	-	-	-	120	-	-	20W MAX	WALL	EXTERIOR RATED WALL SCONCE, SELECTED BY OTHERS, PROVIDED & INSTALLED BY E.C., INCLUDE \$150/FIXTURE MAT'L ALLOWANCE IN BID.
Z	LITHONIA	ZL1D	-	LED	MVOLT	1	DRIVER	30	SURFACE	4" LED STRIP LIGHT, DROP LENS DIFFUSER, 3000 LUMENS, 3000K COLOR TEMP., 80 CRI, WHITE FINISH.
Z2	LITHONIA	ZL1D	-	LED	MVOLT	1	DRIVER	17	WALL	2" LED STRIP LIGHT, DROP LENS DIFFUSER, 1500 LUMENS, 3000K COLOR TEMP., 80 CRI, WHITE FINISH.
	LITHONIA	LQM	1	LED	120, 277	-	-	1.2	CEILING	EXIT LIGHT W/ BATTERY BACK-UP, RED ILLUMINATED EXIT SIGN, HOUSING COLOR BY ARCH.
	LITHONIA	LQM	1	LED	120, 277	-	-	1.2	CEILING	DOUBLE SIDED EXIT LIGHT W/ BATTERY BACK-UP, RED ILLUMINATED EXIT SIGN, HOUSING COLOR BY ARCH.
	LITHONIA	LQM	1	LED	120, 277	-	-	1.2	WALL	EXIT LIGHT W/ BATTERY BACK-UP, RED ILLUMINATED EXIT SIGN, HOUSING COLOR BY ARCH.
	LITHONIA	ELM2L LED	2	1.5 W	120, 277	-	-	1.4	SEE PLAN	GEN. PURPOSE EMERGENCY LED LIGHT, (2) ADJ. HEADS, BATTERY BACK-UP.
EMG-BAT	-	-	-	-	120, 277	-	-	MFG	CONCEALED	EMG, 90 MIN, BATTERY PACK, COORD. W/ FIXTURE TYPE/MFG, W/ TEST SWITCH/LIGHT, TO BE COLD TEMP. RATED IN UNCONDITIONED SPACES/EXTERIOR.
EMG-INV	-	-	-	-	120, 277	-	-	MFG	-	FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER WITH 90 MINUTE BATTERY BACK-UP, SEE RISER(S) AND DETAIL(S).
NOTES: 1. UNLESS OTHERWISE NOTED COLOR & FINISH OF FIXTURE HOUSING, BAFFLE, OR SIMILAR EXPOSED ELEMENTS TO BE BY ARCHITECT. 2. EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF A NORMALLY ON LOCAL LIGHTING CIRCUIT (UNLESS NOTED OTHERWISE).INCLUDE 90 MINUTE BATTERY BACKUP & TESTING MEANS. 3. FIXTURES WITH A STANDARD FACTORY INSTALLED EMERGENCY OPTION SHOULD USE THAT WHERE "EMG-BAT" IS SHOWN. 4. FIXTURES WIRED VIA EMERGENCY LIGHTING INVERTER WHERE "EMG-INV" IS SHOWN. 5. ALL LAMPS OF A SINGLE FIXTURE TYPE INSTALLED IN EACH AREA/ROOM/SPACE ARE TO BE OF SAME TEMPERATURE/COLOR.										
LIGHTING SYSTEMS NCECC SECTION C405 & C406										
LIGHTING POWER DENSITY CALCULATION COMPLIANCE INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2, SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION. INTERIOR WATTAGE SPECIFIED VS. ALLOWED _____ NA VS. NA _____ EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1 - SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION. TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED _____ NA VS. NA _____ NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED _____ NA VS. NA _____						DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE LIGHTING SYSTEMS REQUIREMENTS OF THE NORTH CAROLINA ENERGY CONSERVATION CODE, SECTION C405 & C406 AND ANY LOCAL AMENDMENTS THEREOF. SIGNED: _____ NAME: DUSTIN M. METAYER, PE TITLE: ELECTRICAL ENGINEER				
ADDITIONAL PRESCRIPTIVE COMPLIANCE NOT APPLICABLE (RENOVATION PROJECT) _____ X C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT _____ C406.3 REDUCED LIGHTING POWER DENSITY _____ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS _____						C406.5 ON-SITE RENEWABLE ENERGY _____ C406.6 DEDICATED OUTDOOR AIR SYSTEM _____ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING _____				

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2566 PICKETT RD
DURHAM NC

DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE
LIGHTING
SCHEDULE

SHEET NUMBER
E001

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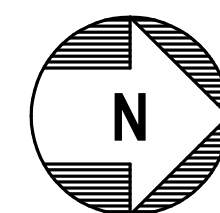
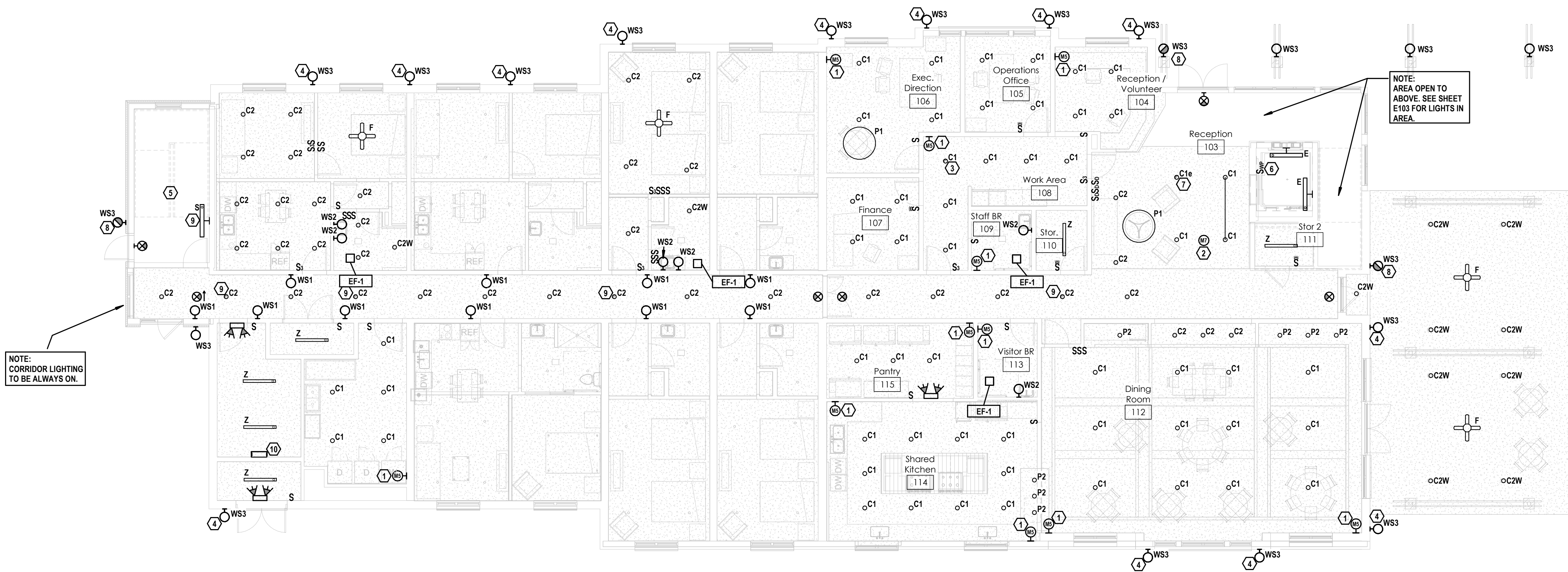
GROUND FLOOR
PLAN - LIGHTING

SHEET NUMBER

E101

NOTES

- POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE UPSTREAM OF AREA SWITCHES. SEE DETAIL.
- POWER CIRCUIT FOR AREA LIGHT FIXTURES TO BE WIRED IN PARALLEL VIA BOTH AREA MOTION SENSOR(S) AND TIMECLOCK. SEE DETAIL. LIGHTS TO STAY ON DURING STANDARD HOURS OF OPERATION. AFTER HOURS, LIGHTS TO COME ON UPON ACTIVATION OF MOTION SENSOR(S).
- FIXTURE TO BE WIRED AS A NIGHT LIGHT.
- LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
- STAIRWELL LIGHTING TO BE CONTROLLED BY INTEGRATED FIXTURE MOTION SENSORS. FIXTURES TO DIM TO APPROX. 10% WHEN SPACE IS UNOCCUPIED. SEE FIXTURE SCHEDULE. LIGHTS ALWAYS AT LEAST 10% ON.
- PROVIDE WEATHERPROOF SWITCH FOR ELEVATOR LIGHTS.
- FIXTURE TO BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACKUP.
- LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAILS AND PANEL SCHEDULE.
- FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL AND PANEL SCHEDULE.
- EMERGENCY LIGHTING INVERTER MOUNTED HIGH ON WALL. SEE RISER FOR INVERTER SIZING.



GROUND FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

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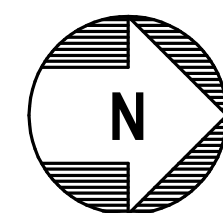
SHEET TITLE
SECOND FLOOR
PLAN - LIGHTING

SHEET NUMBER

E103

NOTES

- POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE UPSTREAM OF AREA SWITCHES. SEE DETAIL.
- PROVIDE WEATHERPROOF SWITCH FOR ELEVATOR LIGHTS.
- FIXTURE TO BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACKUP.
- FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL AND PANEL SCHEDULE.



SECOND FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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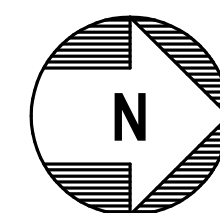
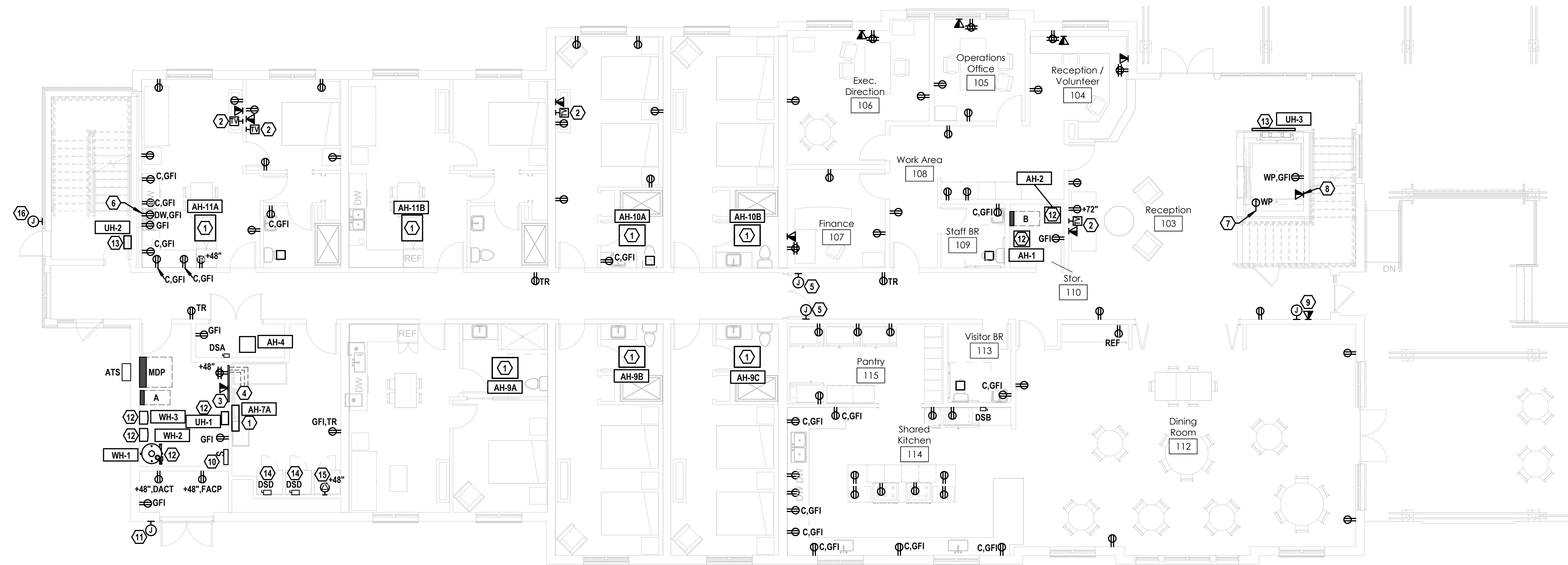
SHEET TITLE
GROUND FLOOR
PLAN - POWER &
SYSTEMS

SHEET NUMBER

E201

NOTES

- AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
- CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
- PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING GROUNDING SYSTEM.
- PROVIDE (3) 4" CONDUITS W/ PULL STRING TO TELE/DATA & CATV DEMARK POINTS. COORDINATE W/ G.C. AND OWNER.
- PROVIDE POWER TO MAGNETIC DOOR HOLDER. WIRE VIA FIRE ALARM RELAY.
- GFI RECEPTACLE FOR DISHWASHER TO BE INSTALLED BELOW SINK IN READILY ACCESSIBLE LOCATION.
- PROVIDE SIMPLEX NON-GFI RECEPTACLE FOR SUMP PUMP. COORDINATE REQUIREMENTS WITH P.C.. PROVIDE GFI BREAKER AT PANEL.
- ELEVATOR CAB PHONE. PROVIDE DEDICATED PHONE LINE TO ELEVATOR, TERMINATED AT THE CONTROLLER. COORDINATE REQUIREMENTS AND EXACT LOCATION WITH ELEVATOR SUPPLIER.
- PROVIDE 2-WAY COMMUNICATION SYSTEM MASTER STATION. SEE DETAIL. CONFIRM LOCATION WITH LOCAL AHJ.
- PROVIDE BATTERY BACK-UP FOR 2-WAY COMMUNICATION SYSTEM. LOCATE BATTERY HIGH ON WALL.
- PROVIDE 120V POWER TO SPRINKLER BELL. WIRE VIA SPRINKLER RISER FLOW SWITCH. COORDINATE LOCATION W/ AHJ.
- BREAKER AT PANEL IN LINE OF SIGHT TO SERVE AS EQUIPMENT DISCONNECT.
- PROVIDE LOCKABLE BREAKER AT PANEL TO SERVE AS EQUIPMENT DISCONNECT.
- PROVIDE POWER AND DISCONNECT FOR DRYER. CONFIRM CONNECTION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- PROVIDE POWER FOR WASHER. CONFIRM OUTLET LOCATION AND TYPE WITH EQUIPMENT SUPPLIER.
- PROVIDE CONDUIT AND POWER FOR CARD READER AND/OR DOOR LOCK. COORDINATE EXACT LOCATIONS AND DETAILS WITH G.C.. DOOR TO OPEN FREELY IN DIRECTION OF EGRESS.



GROUND FLOOR PLAN — POWER
SCALE: 1/8" = 1'-0"

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CARING HOUSE EXPANSION
2586 PICKETT RD
DURHAM NC

DD DD PROGRESS SET

PROJECT NUMBER 7999

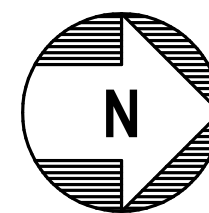
SHEET TITLE
SECOND FLOOR
PLAN - POWER &
SYSTEMS

SHEET NUMBER

E203

NOTES

- AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT, E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
- PROVIDE A NEMA 14-30R RECEPTACLE FOR ELECTRIC CLOTHES DRYER.
- PROVIDE 2-WAY COMMUNICATION CALL STATION. COORDINATE WITH LOCAL AHJ AND OWNER. PROVIDE CONDUIT TO MASTER STATION FOR COMMUNICATION WIRING.
- 100A 3 PHASE DISCONNECT WITH 90A DUAL ELEMENT FUSES FOR ELEVATOR MAIN POWER. COORDINATE WITH ELEVATOR INSTALLER. PROVIDE W/ SHUNT TRIP AND AUXILIARY DRY CONTACT. SHUNT TRIP TO BE TIED TO BUILDING FIRE ALARM SYSTEM.
- PROVIDE LOCKABLE 120V, 15 AMP FUSED DISCONNECT FOR ELEVATOR CAB LIGHTS AND & POWER. INSTALL TIME DELAY RK1 FUSE.



SECOND FLOOR PLAN – POWER
SCALE: 1/8" = 1'-0"

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PROJECT NO. 2024144-00
DRAWN BY: Author
DESIGNED BY: Designer
CHECKED BY: Checker

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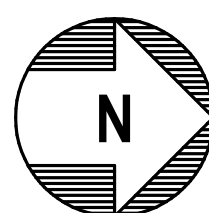
DD PROGRESS SET

PROJECT NUMBER 7999

SHEET TITLE
ROOF PLAN -
POWER &
SYSTEMS

SHEET NUMBER

E212



ROOF PLAN - POWER
SCALE: 1/8" = 1'-0"

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		(LOCATION)										3 PHASE, 4 WIRE	
		PANEL: B										SURFACE MOUNTED	
		LOAD PER PHASE										NEMA 1	
NOTES	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT#	A	B	C	CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
	SPACE	1	-	-	1	0	0		2	-	-	1	SPACE
	SPACE	1	-	-	3		0	0	4	-	-	1	SPACE
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	SPACE	1	-	-	53			0	54	-	-	1	SPACE
						0.0	0.0	0.0					
		TOTAL CONNECTED KVA:				0.0				DEMAND KVA: -			
		PANEL RMS SYM. AMPS:				SEE RISER				DEMAND AMPS: -			

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.

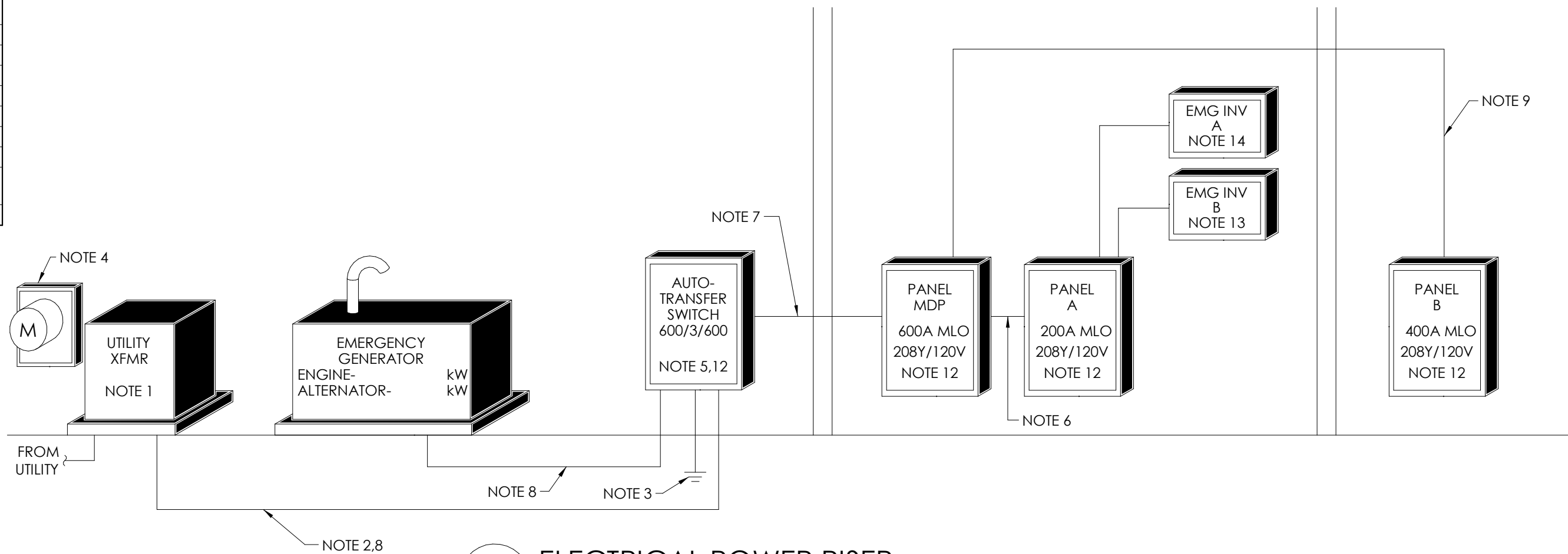
		(LOCATION)										3 PHASE, 4 WIRE	
		PANEL: A										SURFACE MOUNTED	
		LOAD PER PHASE										NEMA 1	
NOTES	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT#	A	B	C	CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
	SPACE	1	-	-	1	0	0		2	-	-	1	SPACE
	SPACE	1	-	-	3		0	0	4	-	-	1	SPACE
	SPACE	1	-	-	5			0	6	-	-	1	SPACE
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	SPACE	1	-	-	9		0	0	10	-	-	1	SPACE
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	SPACE	1	-	-	25	0	0		26	-	-	1	SPACE
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	SPACE	1	-	-	29			0	30	-	-	1	SPACE
	SPACE	1	-	-	31	0	0		32	-	-	1	SPACE
	SPACE	1	-	-	33		0	0	34	-	-	1	SPACE
	SPACE	1	-	-	35			0	36	-	-	1	SPACE
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	SPACE	1	-	-	41			0	42	-	-	1	SPACE
						0.0	0.0	0.0					
		TOTAL CONNECTED KVA:				0.0				DEMAND KVA: -			
		PANEL RMS SYM. AMPS:				SEE RISER				DEMAND AMPS: -			

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.

		(LOCATION)										3 PHASE, 4 WIRE	
		PANEL: MDP										SURFACE MOUNTED	
		LOAD PER PHASE										NEMA 1	
NOTES	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT#	A	B	C	CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
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	SPACE	1	-	-	5			0	6	-	-	1	SPACE
	SPACE	1	-	-	7	0	0		8	-	-	1	SPACE
	SPACE	1	-	-	9		0	0	10	-	-	1	SPACE
	SPACE	1	-	-	11			0	12	-	-	1	SPACE
	SPACE	1	-	-	13	0	0		14	-	-	1	SPACE
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	SPACE	1	-	-	29			0	30	-	-	1	SPACE
	SPACE	1	-	-	31	0	0		32	-	-	1	SPACE
	SPACE	1	-	-	33		0	0	34	-	-	1	SPACE
	SPACE	1	-	-	35			0	36	-	-	1	SPACE
	SPACE	1	-	-	37	0	0		38	-	-	1	SPACE
	SPACE	1	-	-	39		0	0	40	-	-	1	SPACE
	SPACE	1	-	-	41			0	42	-	-	1	SPACE
						0.0	0.0	0.0					
		TOTAL CONNECTED KVA:				0.0				DEMAND KVA: -			
		PANEL RMS SYM. AMPS:				SEE RISER				DEMAND AMPS: -			

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.

DISCONNECT SWITCH SCHEDULE									
* FUSE TO BE DETERMINED IN FIELD FROM UNIT FULL LOAD AMPS									
DESIG	DESCRIPTION	VOLTS	AMPS	POLES	FUSE AMPS	FUSE TYPE	NEMA ENCLOSURE	REMARKS	
DSA	AIR HANDLER #3 DISCONNECT	208	30	2	-	-	NEMA 1		
DSB	AIR HANDLER #2 DISCONNECT	208	30	3	-	-	NEMA 1		
DSC	AIR HANDLER #5 DISCONNECT	208	60	2	-	-	NEMA 1		
DSD	COMMERCIAL DRYER DISCONNECT	208	60	3	-	-	NEMA 1		
DSE	ELEVATOR MAIN DISCONNECT	208	100	3	90	-	NEMA 1	PROVIDE LOCKABLE ENCLOSURE	
DSH1	HEAT PUMPS #1 & #2 DISCONNECT	208	30	3	-	-	NEMA 3R		
DSH2	HEAT PUMPS #3,4,5 DISCONNECT	208	30	2	-	-	NEMA 3R		
DSH3	MINI-SPLIT HEAT PUMP DISCONNECT	208	30	2	-	-	NEMA 3R	PROVIDE LOCKABLE ENCLOSURE	
DSL	ELEVATOR LIGHTS DISCONNECT	120	30	1	15	RK1	NEMA 1	PROVIDE LOCKABLE ENCLOSURE	



1 ELECTRICAL POWER RISER

NO SCALE

RISER DIAGRAM NOTES:

- PAD MOUNTED TRANSFORMER BY UTILITY.
- SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. IF RUN LENGTH EXCEEDS 150' CONTACT ENGINEER PRIOR TO PURCHASING MATERIAL OR BEGINNING WORK.
- #2/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- TRANSFORMER MOUNTED METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- SERVICE ENTRANCE RATED WEATHERPROOF AUTOMATIC TRANSFER SWITCH SIZED AND FUSED AS INDICATED.
- [4] #3/0 CU, #6 CU GND, 2" CONDUIT.
- [2] SETS OF [4] 350kcmil CU, #1/0 CU GND, 3" CONDUIT.
- [2] SETS OF [4] 350kcmil CU, 3" CONDUIT.
- [2] SETS OF [4] #3/0 CU, #3 CU GND, 2" CONDUIT.
- PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
- EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-125-5M 125 WATT MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION.
- EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO IOTA IIS-375-1 375 WATT MODEL. NORMALLY ON. SEE DETAIL FOR MORE INFORMATION.

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PROJECT No:
2024144-00

DRAWN BY:
Author

DESIGNED BY:
Designer

CHECKED BY:
Checker

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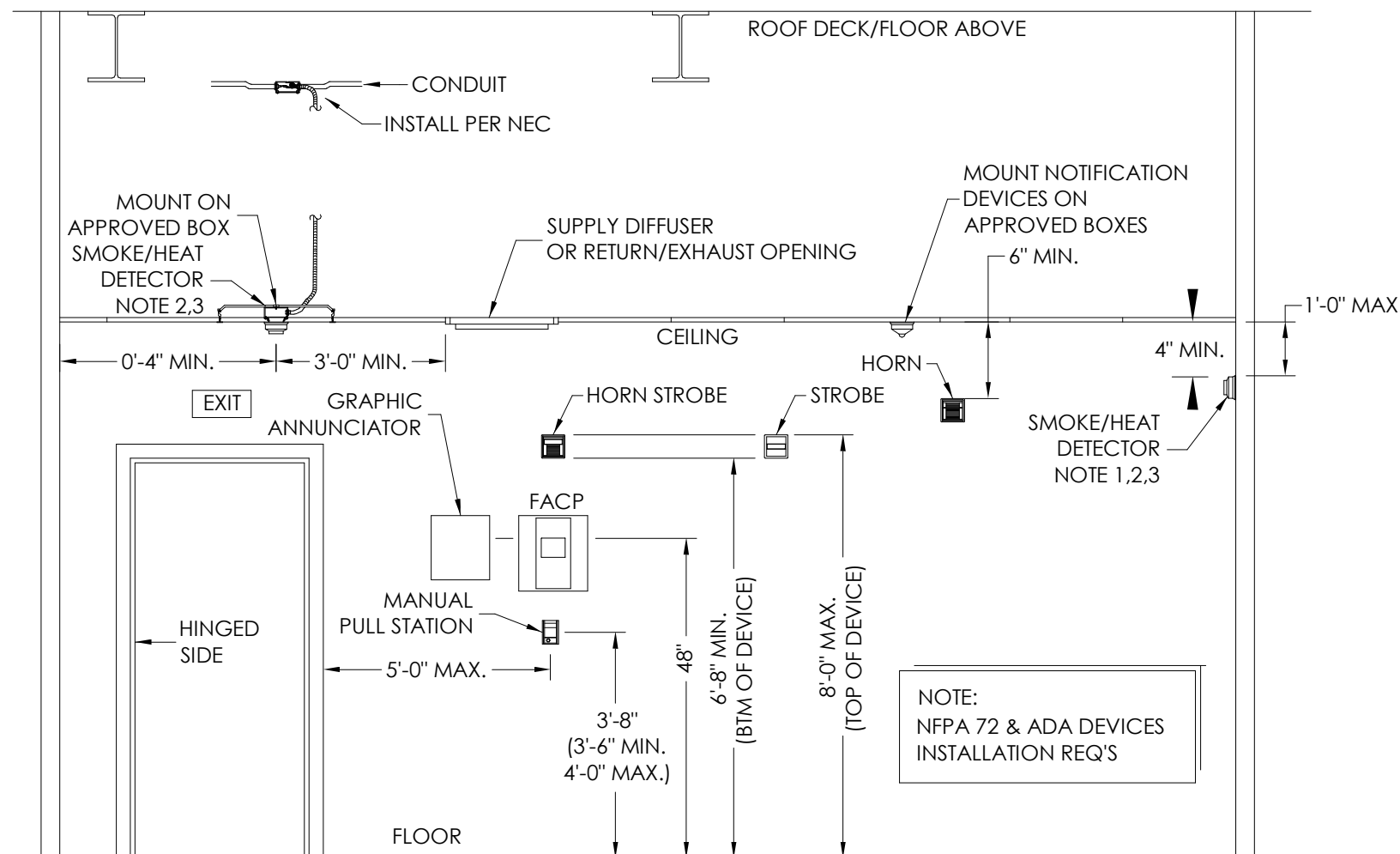
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DEVICE DETAIL NOTES:

1. PLACE SMOKE/HEAT DETECTOR AT HIGHEST POINT IN VAULTED CEILINGS.
2. PLACE SMOKE/HEAT DETECTOR NO LESS THAN 3FT FROM BATHROOM/SHOWER ROOM DOORS (2018 NCBC 907.2.11.4)
3. PLACE PHOTOELECTRIC SMOKE/HEAT ALARMS NO LESS THAN 6FT FROM PERMANENTLY INSTALLED COOKING APPLIANCES (2018 NCBC 907.2.11.3.3). PLACE IONIZATION SMOKE/HEAT DETECTORS WITH AN ALARM-SILENCING SWITCH NO LESS THAN 10FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2018 NCBC 907.2.11.3.2). PLACE IONIZATION SMOKE/HEAT DETECTORS WITHOUT AN ALARM-SILENCING SWITCH NO LESS THAN 20FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2018 NCBC 907.2.11.3.1).

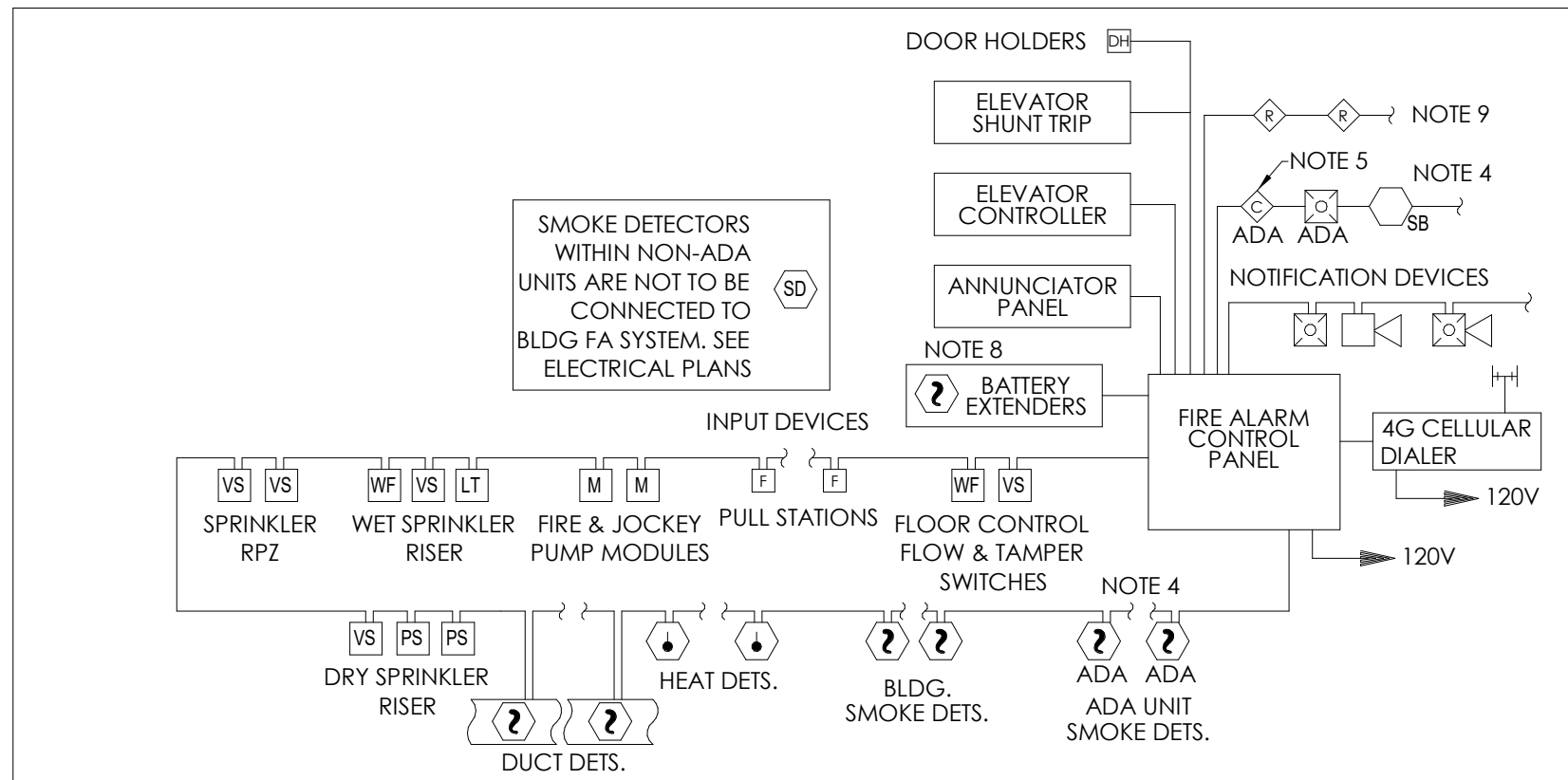
FIRE ALARM AND SIMILAR DEVICE LOCATIONS
NO SCALE

GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM CONTRACTOR IS TO BE HELD TO THE SAME REQUIREMENTS AS THE ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND ELECTRICAL "GENERAL NOTES" BEFORE COMPLETING BID.
2. FIRE ALARM CONTRACTOR IS TO VERIFY PROPOSED SYSTEM HAS BATTERY AND VOLTAGE CAPACITY TO HANDLE ALL DEVICES PLUS REQUIRED CAPACITY FOR POTENTIAL FUTURE DEVICES. PROVIDE FIRE ALARM SHOP DRAWINGS TO LOCAL AHJ.
3. AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, AT ALL LOCATIONS WITHIN THE OCCUPIABLE SPACE (TYPICAL AVERAGE AMBIENT SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72 TABLE A.18.4.3). THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 75 dBA IN OCCUPANCY GROUPS R AND I-1, 90 dBA IN MECHANICAL EQUIPMENT ROOMS, AND 60 dBA IN ALL OTHER OCCUPANCIES. THE MAXIMUM SOUND PRESSURE LEVEL SHALL BE 110 dBA AT THE MINIMUM HEARING DISTANCE FROM ANY AUDIBLE APPLIANCE.
4. IF THREE OR MORE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCES ARE LOCATED WITHIN AN OBSERVER'S FIELD OF VIEW (135°) AND WITHIN 55'-0" OF THE OBSERVER, THEN THE DEVICES SHALL BE SYNCHRONIZED.
5. LOW FREQUENCY DEVICES TO BE INSTALLED IN SLEEPING AREAS OF APARTMENT UNITS (INCLUDING LIVING ROOMS).
6. ADA SMOKE DETECTORS TO INCLUDE LOW FREQUENCY SOUNDER BASE. TEMPORAL 3 TONE PATTERN FOR FIRE ALARM, ADA CARBON MONOXIDE DETECTORS TO INCLUDE LOW FREQUENCY SOUNDER BASE. TEMPORAL 4 TONE PATTERN.
7. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.
8. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN UPDATED FIRE ALARM LAYOUT PLAN AT THE FACP.
10. TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
11. FIRE ALARM DEVICES COLOR TO BE SELECTED BY THE ARCHITECT.
12. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.

SYMBOL SCHEDULE - FIRE ALARM

SYMBOL	DESCRIPTION
	FIRE ALARM AUDIBLE VISUAL UNIT, WALL MOUNTED
	FIRE ALARM AUDIBLE VISUAL UNIT, CEILING MOUNTED
	FIRE ALARM VOICE, CEILING MOUNTED
	FIRE ALARM VOICE, WALL MOUNTED
	FIRE ALARM HORN, WALL MOUNTED
	FIRE ALARM VISUAL UNIT, WALL MOUNTED
	FIRE ALARM VISUAL UNIT, CEILING MOUNTED
	FIRE ALARM BELL
	FIRE ALARM PULL STATION
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM CARBON MONOXIDE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM DUCT DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM VALVE SUPERVISORY SWITCH
	SPRINKLER SYSTEM LOW TEMPERATURE SENSOR
	FIRE ALARM MONITOR MODULE
	FIRE ALARM RELAY MODULE
	FIRE ALARM CONTROL PANEL
	NAC EXTENDER PANEL



RISER NOTES:

1. FIRE ALARM CONTROL PANEL TO BE EQUAL TO FIRE-LITE ES-200X W/ FIRE-LITE IPGSM-4G DIGITAL CELLULAR FIRE COMMUNICATOR W/ BATTERY BACK-UP (POWER AND TELECOM LINES FOR DEVICE MUST BE IN CONDUIT (SEE MANUFACTURER'S INSTRUCTIONS) AND ANN-80 ANNUNCIATOR PANELS. PROVIDE FCPS24-F58 POWER SUPPLIES AS REQUIRED. ENSURE SMOKE DETECTOR IS PROVIDED AT ALL BATTERY EXTENDER PANELS.
2. ENSURE ALL DEVICES/APPLIANCES USED ARE COMPATIBLE WITH FACP. PROVIDE ALL PROGRAMMING AND FINAL CONNECTION BY A FACTORY TRAINED TECHNICIAN.
3. RISER IS GENERIC IN NATURE SEE PLAN FOR EXACT DEVICE LAYOUT AND QUANTITY.
4. MAP ADA UNIT SMOKE DETECTORS TO CORRESPONDING UNIT CONTROL MODULE. WHEN SMOKE IS DETECTED IN AN ADA UNIT ONLY NOTIFICATION DEVICES IN THAT SPECIFIC UNIT ARE TO ACTIVATE.
5. CONTROL MODULE TO ACTIVATE ADA UNIT NOTIFICATION APPLIANCES UPON GENERAL BUILDING ALARM AND DETECTION OF SMOKE WITHIN INDIVIDUAL UNIT.
6. COORDINATE EXACT QUANTITY AND LOCATION OF SPRINKLER SYSTEM SUPERVISORY DEVICES WITH SPRINKLER CONTRACTOR.
7. ALL DEVICES IN SLEEPING AREAS AND APARTMENT UNITS, INCLUDING LIVING ROOMS, TO BE LOW FREQUENCY TYPE.
8. BATTERY EXTENDER PANELS SHOWN ON MULTIPLE FLOORS. SEE PLANS. SOME PANELS MAY BE OMITTED IF VOLTAGE DROPS AND BATTERY AMP HOUR REQUIREMENTS CAN BE MET WITHOUT. PROVIDE SMOKE DETECTOR AT ALL BATTERY PANEL LOCATIONS.
9. RELAYS FOR DOOR HOLDERS AND HVAC. SEE PLANS.

FIRE ALARM RISER DIAGRAM
NO SCALE

FIRE ALARM SYSTEM
INPUT/OUTPUT MATRIX

SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1. FIRE ALARM SYSTEM AC POWER FAILURE																									1
2. FIRE ALARM SYSTEM LOW BATTERY																									2
3. OPEN CIRCUIT																									3
4. GROUND FAULT																									4
5. NOTIFICATION APPLIANCE CIRCUIT SHORT																									5
6. BUILDING MANUAL PULL STATIONS																									6
7. CORRIDOR SMOKE DETECTORS																									7
8. AREA SMOKE DETECTORS																									8
9. HVAC AIR DUCT SMOKE DETECTORS																									9
10. AREA HEAT DETECTORS																									10
11. HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM																									11
12. SPRINKLER TAMPER SWITCH																									12
13. SPRINKLER WATER FLOW IN BUILDING																									13
14. SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT																									14
15. ELEV EQUIP RM AREA SMOKE/HEAT DETECTOR																									15
16. ELEV SHAFT AND ELEV EQUIP RM SMOKE/HEAT DETECTORS																									16
17. ELEV LOBBY SMOKE/HEAT DETECTORS - UPPER FLOORS																									17
18. ELEV LOBBY SMOKE/HEAT DETECTOR - RECALL FLOOR																									18
19. ELEV CONTROLLER POWER SHUNT TRIP STATUS																									19
20. FIRE PUMP POWER FAILURE/PHASE REVERSAL																									20
21. FIRE PUMP RUNNING																									21
22. FIRE PUMP SYSTEM NOT IN AUTOMATIC																									22
23. LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL																									23
24. LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC																									24
25																									25
26																									26
27. AREA CARBON MONOXIDE DETECTORS																									27

FIRE ALARM DEVICE MATRIX
NO SCALE

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REV DATE	REV #	REVISION DESCRIPTION
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CARING HOUSE EXPANSION
2566 PICKETT RD
DURHAM NC

DD PROGRESS SET

PROJECT NUMBER 7999

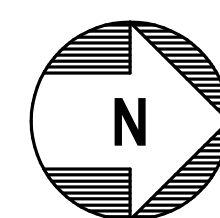
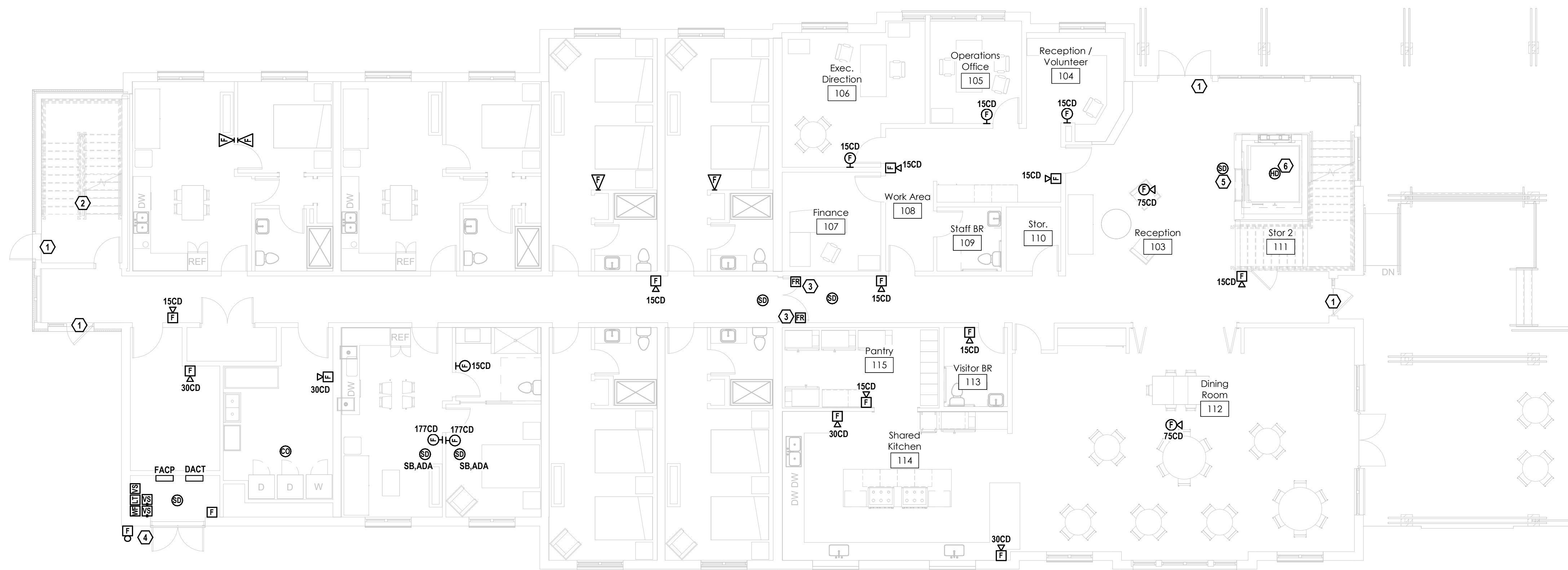
SHEET TITLE
FIRST FLOOR
PLAN - FIRE
ALARM

SHEET NUMBER

FA101

NOTES

- MANUAL PULLSTATIONS OMITTED AS THEY ARE NOT REQUIRED PER 2018 NCFG SEC. BUILDING FIRE SPRINKLER SYSTEM IS INTERLOCKED WITH BLDG FA SYSTEM. CONTRACTOR TO VERIFY INTERLOCK BEFORE BEGINNING WORK.
- VISUAL ALARM NOTIFICATION NOT REQUIRED. 2018 NCFG SECTION 907.5.2.3 EXCEPTION #2.
- PROVIDE ADDRESSABLE RELAY MODULE FOR DOOR HOLDER OPERATION. PROVIDE SMOKE DETECTOR ON BOTH SIDES OF DOORWAY.
- PROVIDE 120V WEATHERPROOF SPRINKLER BELL FOR SPRINKLER RISER ROOM. E.C. TO WIRE VIA FLOW SWITCH.
- PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL.
- PROVIDE HEAT DETECTOR WITHIN 24" OF SPINKLER HEAD. IF NO SPRINKLER HEAD PRESENT, OMIT AND PROVIDE CREDIT TO OWNER. COORDINATE W/ FIRE SPRINKLER CONTRACTOR, SPRINKLER HEAD SPECS, AND HEAT DETECTOR SPECS TO ENSURE HEAT DETECTOR WILL ACTIVATE PRIOR TO SPRINKLER HEAD.



GROUND FLOOR PLAN - SYSTEMS

SCALE: 1/8" = 1'-0"

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PROJECT No. 2024144-00
DRAWN BY: Author
DESIGNED BY: Designer
CHECKED BY: Checker
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Not For
Construction

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REVISION SCHEDULE

REV DATE	REV #	REVISION DESCRIPTION
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DD PROGRESS SET

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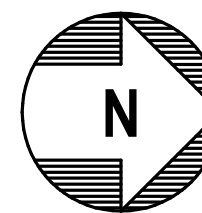
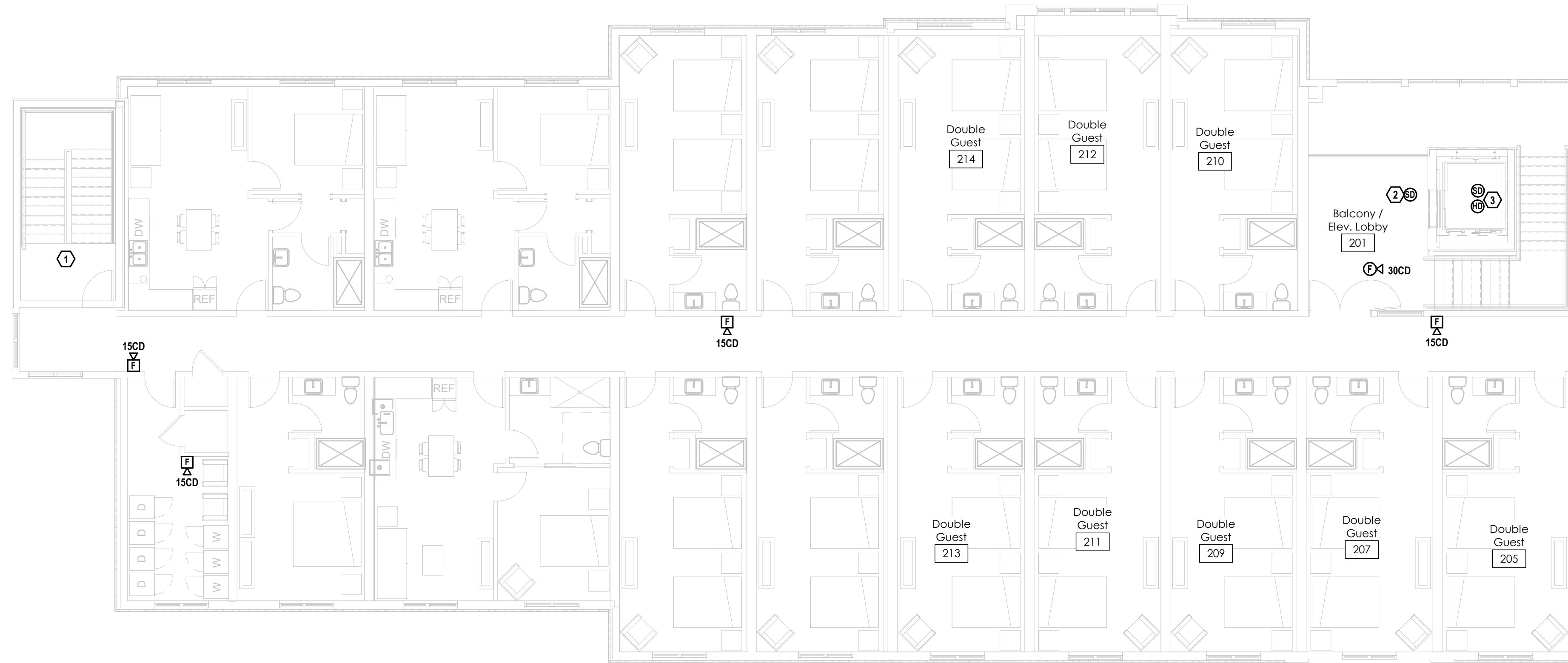
SHEET TITLE
SECOND FLOOR
PLAN - FIRE
ALARM

SHEET NUMBER

FA102

NOTES

- VISUAL ALARM NOTIFICATION NOT REQUIRED. 2018 NCFC SECTION 907.5.2.3 EXCEPTION #2.
- PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL.
- PROVIDE HEAT AND SMOKE DETECTOR WITHIN 24" OF SPRINKLER HEAD. IF NO SPRINKLER HEAD PRESENT, OMIT AND PROVIDE CREDIT TO OWNER. COORDINATE W/ FIRE SPRINKLER CONTRACTOR, SPRINKLER HEAD SPECS, AND DETECTOR SPECS TO ENSURE DETECTOR WILL ACTIVATE PRIOR TO SPRINKLER HEAD.



SECOND FLOOR PLAN — SYSTEMS

SCALE: 1/8" = 1'-0"

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